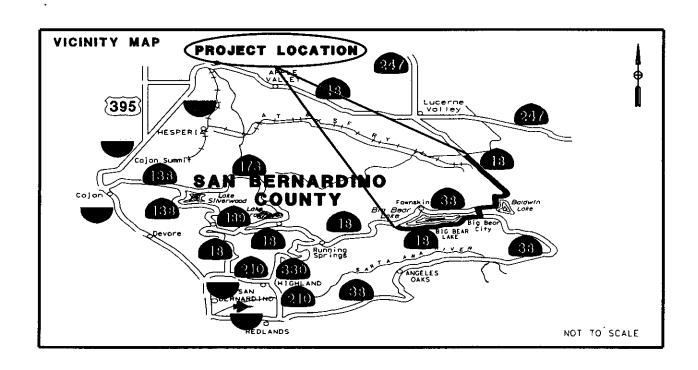
08-SBD-18-PM 44.30/48.40 & PM 51.61/68.00 AUGUST 2005 EA 0G690K

PROJECT STUDY REPORT



ON STATE ROUTE 18
AT VARIOUS LOCATIONS FROM LAKE DAM
TO ARCTIC CANYON WASH
IN THE COUNTY OF SAN BERNARDINO

APPROVAL RECOMMENDED:

MOHAMMAD MOLLAZADEH
PROJECT MANAGER

APPROVED BY:

PATRICIA ROMO
ACTING DISTRICT DIRECTOR

9-1-05 DATE



This Project Study Report has been prepared under the direction of the following registered Civil Engineer. The registered Civil Engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

REGISTERED CIVIL ENGINEER

duy 31 2005 DATE



PROJECT STUDY REPORT

08-SBd-18-PM 44.30/48.40, & PM 51.61/68.00 08-312-0G690K HB-42 Reline or Replace Existing Culverts

1. INTRODUCTION

The scope of the project outlined in this Project Study Report (PSR) consists primarily of relining or replacing the existing culverts in various locations on State Route 18 in the mountains and desert areas of San Bernardino County. This project was initiated at the request of the Maintenance Division. Two alternatives are being considered for this project; 1) No Build 2) Reline or Replace Existing Culverts. The second alternative is estimated to cost about \$6,000,000 with the Right of Way (ROW) cost of \$442,500 (current value). This project is classified as a Category 5 project as defined in the Project Development Procedures Manual (7th Edition revised 7/1/99, Part 2, Chapter 8 and Section 5) because of its minimal economic, social, and environmental significance. The total estimated cost for the proposed improvement is \$7,500,000 including support cost. This project is eligible for programming in the 2006 State Highway Operation and Protection Plan as an HB42 – Protective Betterments Project.

2. BACKGROUND

State Route 18 (SR-18) in San Bernardino and Los Angeles Counties is a two to four lane conventional highway with expressway sections. The District 8 portion of SR-18, located entirely within the County of San Bernardino, includes 6.2 miles of unconstructed highway and 109.7 miles of constructed highway. The constructed portion of SR-18 begins at State Route 210 (SR-210) in the City of San Bernardino and extends northeasterly, then northwesterly through the San Bernardino Mountains and the Mojave Desert. The route terminates at its junction with State Route 138 in Los Angeles County (District 7). In San Bernardino County the route traverses the cities of San Bernardino, Big Bear Lake, and Victorville, the Town of Apple Valley and the communities of Big Bear City and Lucerne Valley. SR-18 serves interregional, intra-regional and local traffic. High demand occurs on weekends and holidays due to recreational trips to the San Bernardino Mountains and desert areas. Traffic is more stable in the Victorville and Apple Valley areas with a significant amount of commuter and local trips. The various locations of SR-18 within this project are included in the Interregional Road System (IRRS) as a Non-High Emphasis Interregional Route. Portion of SR-18 from PM R17.7 to PM 73.8 is eligible as a State Scenic Highway but not officially designated. SR-18 is not

included in the Strategic Highway Corridor Network (STRAHNET). The portion of the route from PM T8.3 to PM 65.8 is listed as a route not advised for tractor-semis with kingpin to rear axle length over posted length in the National Network for Surface Transportation Assistance Act (STAA) trucks. The existing lanes are 12 feet wide and the shoulder width ranges from 0 to 4.0 feet.

3. NEED AND PURPOSE

As the State highway systems infrastructure ages, the need to rehabilitate or replace develops. A cursory review of the culverts along this section of SR-18 by our Video Inspection Unit indicates that majorities have severely rusted out inverts and are reaching the end of their designed service life. These culverts are in need of either lining or replacement. The decision to reline or replace will be determined during design as specific data for each culvert becomes available. Maintenance has requested that consideration of upsizing be given to each crossing; the Hydraulics unit and Maintenance are to be consulted on all of these matters. Rehabilitation or reconstruction of these culverts is necessary to maintain the integrity of the highway.

4. ALTERNATIVES

Alternatives under consideration for this project include the following:

- No Build
- 2. Reline or replace existing culverts

Alternative 1 No-Build

This alternative would maintain the existing culverts in its current condition and there is no capital cost associated with this alternative. However, this alternative does not preclude the construction of future improvements. This alternative is not a viable option, since it would do nothing to improve the aging and deteriorating culverts.

Alternative 2 Reline or Replace Existing Culverts

In this alternative, it is proposed to reline or replace 177 culverts (Attachment A). The proposed improvement will require relatively small work areas on either side of the culvert crossing. There is no known project within the above-mentioned limits that may impact this project. No additional Right of Way is required for this alternative. However, Temporary Construction Easements (TCE) may be required. The cost of this proposed alternative is estimated at \$6,000,000 (Attachment B) not including support cost.

ANALYSIS OF PROPOSAL

In contrast with the No-Build alternative, the proposed improvement in Alternative 2 is intended to address the deficiencies of aging and deteriorating culverts.

5. SYSTEM PLANNING

The proposed project is consistent with statewide, regional and local planning goals, and will be coordinated with impacted governmental, regulatory and private agencies in the area to ensure consistency with specific goals and objectives. This project should also be coordinated with Maintenance projects, which may not be included in the following list.

State Highway improvements within the project limits includes the following:

EA	LOCATION	DESCRIPTION
22700	PM 44.2/44.7	Replace bridge
0F420	PM 44.3/54.5	Place asphalt concrete bonded
0G910	PM 44.3/45.3	Remove rocks, debris & trees, repair road, guardrail, etc.
0E610	PM 46.0/48.0	Install Changeable Message Sign (CMS)
40490	PM 47.1	Construct Rock Slope Protection
47980	PM 52.7	Widen roadway and modify signals
0F860	PM 54.6/59.0	Place Chip Seal and some localized digouts
39470	PM 66.4/67.1	Replace bridge

6. HAZARDOUS MATERIAL/WASTE

Based on Initial Site Assessment dated July 7, 2005 there is no aerial deposited lead (ADL) concern and there is low risk of potential hazardous waste involvement for this project.

7. TRANSPORTATION MANAGEMENT PLAN

The proposed improvements will be constructed within the existing Right of Way and the acquired Temporary Construction Easement (TCE). A Transportation Management Plan (TMP) has been developed that outlines measure to minimize traffic impacts during construction (Attachment E). The cost of the TMP has been estimated at \$301,250. However, due to limited data available at this time, we decided to use \$500,000 for cost estimating purposes.

8. ENVIRONMENTAL CLEARANCE

A Mitigated Negative Declaration and Finding of No Significant Impact (ND/FONSI) is the anticipated environmental document for this proposed project (Attachment C).

The proposed improvement will not require acquisition of new Right of Way but rather Temporary Construction Easements (TCE) and no impacts on existing utilities is anticipated (Attachment D).

9. FUNDING/SCHEDULING

The following table is a summary of the estimated Person Years (PYs) required to complete the project according to the Person Year, Project Scheduling, and Cost Analysis (PYPSCAN) Program.

DISTRICT PY'S								
FISCAL YEAR								
	Year 05/06 Year 06/07 Year 07/08 Year 08/09 Year 09/10							
Environmental		0.80						
Design		7.73	3.62					
, R/W								
Office Engr.			0.15					
Construction			0.13	3.61	2.91			
Subtotal		8.53	3.90	3.61	2.91			
Total Estimated PY'S = 18.95								

The following is a summary of the tentative schedule milestones for this project.

MILESTONES	Duration in months from the approval of the PSR
Approved PSR	Sep/2005
Approved PA&ED	10
PS&E	26
R/W Certification	28
HQ Advertisement	30
Complete Project	55

10. DISTRICT CONTACT

Name/Title	Organization/Branch	Phone
Mohammad Mollazadeh, Project Manager	Program Management	(909) 388-7184
John Rogers, Office Chief	Hydraulics	(909) 383-4624
Lydia Kean, Project Engineer	Hydraulics	(909) 383-4555

Attachment A

Culvert Locations

EA 0G690K CULVERT LOCATIONS					
(ROUTE 18)					
PM	Culvert size, type & length	R/W width from CL			
1st segment PM 44.3-48.4					
44.402	18" CMP = 50'	., <u>.</u>			
44.444	18" PCC = 50'				
44.450					
44.542					
44.653	18" RCP = 62.5'				
44.740	18" RCP = 37.5'				
44.815	18" PCC = 41.7'				
44.836	18" PCC = 37.5'				
44.860					
44.948	18" RCP = 31.2'				
45.040					
45.090					
45.116	18" PCC = 41.7'				
45.220					
45.260					
45.280					
45.400					
45.420					
45.450					
45.480					
45.500					
45.590					
45.650					
45.710					
45.760					
45.850					
46.000					
46.180					
46.260					
46.310					
46.400					
46.450					
46.650					
46.760					
46.920					
47.170					
47.300					
47.430		· v			
47.450					
47.470					
47.520					
47.670					
47.890					
48.000					
48.370		S-1			
48.400					
48.440					
48.480					

EA	0G690K CULVERT LOCATIONS	
PM	(ROUTE 18) Culvert size, type & length	Data de ferma
PIVI	Culvert size, type & length	R/W width from CL
2nd cogmont DM 51 61 69 00		subtotal = 48 culverts
nd segment PM 51.61-68.00		
51.610		
51.690		_ ·
51.840		
51.960		
52.000		
52.140	 _	···
52.290		
52.370		
52.410		
52.540		
52.672	28"X20" CSP arch = 96'	
52.780		
52.880		
52.890		
52.980		
53.060		
53.210		
53.260		
53.350		
53.470		
53.480		
53.610		
53.730		·
53.800		
53.810		7 74
53.860		
53.910		
53.950		
53.960	24" CSP = 46.9'	
ddtn'l culverts connected to the	24" CSP	
54.140		
54.500		
54.630	600 mm AP	
mm longitudinal pipe from Seg	uoia Dr to Rte 18	
54.660		
54.709	450 mm AP = 12.8'	
54.750		
54.774	2-600 mm AP = 79.7'	
55.210		
55.310		
55.380		

EA 0G690K CULVERT LOCATIONS				
PM	(ROUTE 18)	DAM width from Cl		
55.750	Culvert size, type & length	R/W width from CL		
55.960				
56.090				
56.210				
56.310				
56.500				
56.550				
56.720				
56.870				
56.990				
57.170		N		
57.260				
57.430				
57.490				
57.620				
57.750				
57.820				
57.900				
58.150				
58.310				
58.400				
58.790				
59.240				
59.340				
59.500				
59.730				
59.810				
59.850				
59.910				
60.090				
60.170		77		
60.360				
60.420				
60.490				
60.910				
60.960				
61.580				
61.740				
61.880				
62.040				
62.340		7.1		
62.620				
62.800				
62.890				
62.980				
62.990				
63.060 63.080				

F	A 0G690K CULVERT LOCATIONS	
	(ROUTE 18)	
PM	Culvert size, type & length	R/W width from CL
63.140	Suite to Est, type & forigin	1000 Width from CL
63.220		
63.300		
63.320		
63.360		
63.510		
63.573	36" CMP = 68'	
63.606	36" CMP = 55'	
63.658	4-36" CMP = 45.5' each	
63.710	4-30 CMI - 43.3 Each	<u> </u>
63.758	18" CMP = 61'	
63.850	18 CIVIF = 01	
63.990	36" CMP = 84'	
64.050	30 CWIF - 04	
64.215	36" CMP = 80'	
64.310	30 CMF - 80	
64.690	maybe box	
64.709	36" CMP = 80'	
64.820	30 CWF - 80	
64.980		
65.381	24" CMP = 50'	·
65.397	24" CMP = 60'	
65.480	24 CIVIF - 60	
65.516	36" CMP = 83'	······································
65.600	30 CIVIF - 83	
65.923	36" CMP = 88.9'	
66.162	36" CMP = 72.2'	
66.490		~
66.816	48" CMP = 56'	
66.880	48 CMP = 36	
66.890		
66.926	2411 0145 701	
67.180	24" CMP =72'	
67.230		
67.390		
67.600	26" CMD = 00"	
67.869	36" CMP = 83'	
67.901	36" CMP = 72'	
67.936	24" CMP = 43'	
01.830	24" CMP = 43'	
Total of 177 culverts (approx)		subtotal = 129 culverts
(applux)		

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Attachment B

Preliminary Cost Estimate Summary

Alternative 2

08-SBd-18

Type of Estimate HB-42 Program Code PM 44.30/48.40 & 51.61/68.00 EΑ 0G690K PP No. 2860

PROJECT DESCRIPTION

Limits

At various locations from Lake Dam to Arctic Canyon Wash

in the County of San Bernardino.

Proposed

Improvement (Scope)

Reline or Replace Existing Culverts

Alternative

2

ROADWAY ITEMS	\$ 5,433,000
STRUCTURE ITEMS	\$ 0
SUBTOTAL CONSTRUCTION	\$ 5,433,000
RIGHT OF WAY (Escalated Value)	\$ 518,000
TOTAL PROJECT COST	\$ 5,951,000

Prepared By:

Lydia Kean

Date

30-Aug-05

Reviewed By:

John Rogers

Date

31-Aug-05

Sheet 1 of 6

08-SBd-18

Type of Estimate PSR
Program Code HB-42
PM 44.30/48.40 & 51.61/68.00
EA 0G690K
PP No. 2860

I. ROADWAY ITEMS	QUANTITY	UNIT	UNIT PRICE	UNIT COST	SECTION COST
SECTION 1. Earthwork					
Roadway Excavation	0	CY	\$0	\$0	
Imported Borrow	0	CY	\$0	\$0	
Clearing & Grubbing	0	LS	\$0	\$0	
Develop Water Supply (5% -10% Roadway.Excavation)	0	LS	\$0	\$0	
· .			Total Earthw	ork Section	\$0
SECTION 2. Structural Section	•				
PCC Pavement	0	CY	\$0	\$0	
Asphalt Concrete	8530	ton	\$227	\$1,936,310	
Lean Concrete	0	CY	\$0	\$0	
Cement Treated Base	0	CY	\$0	\$0	
Aggregate Base	0	CY	\$0	\$0	
Aggregate Subbase	0	CY	\$0	\$0	
Permeable Material Blanket & Edge Drains	0	CY	\$0	\$0	
			Total Structu	ral Section	\$1,936,310
SECTION 3. Drainage					
Large Drainage Facilities	0	LF	\$0	\$0	
Storm Drains	5,807	LF	\$98	\$569,086	
Pumping Plants	0	LS	\$0	\$0	
Project Drain	0	LF	\$0	\$0	
Drainage	0	LS	\$0	\$0	

Total Drainage	Section	\$569,086

08-SBd-18

PP No.

2860

. ...

	QUANTITY	UNIT	UNIT PRICE	UNIT COST	SECTION COST
SECTION 4. Specialty Items					
Install single Thrie Beam Barrier	0	LF	\$0	\$0	
Install Concrete Barrier Type 60	0	LF	\$0	\$0	
Remove Double Metal Barrier	0	LF	\$0	\$0	
Remove Type K-rail	0	LF	\$0	\$0	
Landscaping/Irrigation	0	LS	\$0	\$0	
Erosion Control	0	ACRE	\$0	\$0	
Slope protection	0	CY	\$ 0	\$0	
Barriers and Guardrails	0	LF	\$0	\$0	
Hazardous Waste Work	0	LS	\$0	\$0	
Storm Water Pollution Program	1	LS	\$0	\$0	

		\$0			
SECTION 5. Traffic Items				·	
Electrical	0	LS	\$0	\$0	
Lighting	0	LS	\$0	\$0	
Traffic Signals	0	EA	\$0	\$0	
Permanent Signing	0	LS	\$ 0	\$0	
Traffic Control System	1	LS	\$562,500	\$562,500	
Transportation Management Plan	1	LS	\$500,000	\$500,000	

Total Traffic Items

\$1,062,500

SUBTOTAL SECTIONS 1-5 \$3,567,896

08-SBd-18

PP No.

2860

				UNIT COST	SECTION COST
SECTION 6. Minor Items					
Subtotal Sections 1-5	\$3,567,896	X	8%	\$285,432	
	то	TAL MINOR	ITEMS		\$285,432 ~
SECTION 7. Roadway Mobilization					
Subtotal Sections 1-5	\$3,567,896				
Minor Items	\$285,432				
SUM	\$3,853,328	x	8%	\$308,266	
	то	TAL ROADW	VAY MOBILIZATI	ON	\$308,266
SECTION 8. Roadway Additions Supplemental					
	#0 FC7 00C				
Subtotal Sections 1-5	\$3,567,896				
Minor Items	\$285,432				
SUM	\$3,853,328	x	8%	\$308,266	
Subtotal Sections 1-5	\$3,567,896				
Minor Items	\$285,432				

TOTAL ROADWAY ADDITIONALS

\$1,271,598

TOTAL ROADWAY ITEMS (Total of Sections 1-8)

\$5,433,192

ROUND OFF TO:

\$5,433,000

The 8% includes the anticipated cost for Water Pollution Control.

Estimate Prepared By:

Lydia Kean

Phone # (909) 383-4555

Date

30-Aug-05

08-SBd-18

Type of Estimate PSR
Program Code HB-42
PM 44.30/48.40 & 51.61/68.00
EA 0G690K
PP No. 2860

II. STRUCTURES ITEMS				
	No.1	No.2	No.3	No.4
Bridge Name				
Structure Type				
Width in meters-out to out	o	0	0	0
(in feet)	0	0	0	0
Span Length in meters	o	0	0	0
(in feet)	0	0	0	0
Total Area in square meters	0	0	0	0
(in square feet)	0	0	0	0
Footing Type (pile/spread)	•••			
Cost Per square meters	\$0	\$0	\$0	\$0
(Per square feet)	0	0	0	0
SUBTOTAL FOR STRUCTURE	\$0 .	\$0	\$0	\$0
	0			
Related Ramps	\$0	\$0	\$0	\$0
Railroad Related Cost	\$0	\$0	\$0	\$0
Subtotal	\$ 0	\$0	\$0	\$0
10% Mobilization	\$0	\$0	\$0	\$0

TOTAL STRUCTURES ITEMS	\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

COMMENTS: ROUND OFF TO: \$0

\$0

\$0

\$0

Estimate Prepared By : Phone # Date

25% Contingency

Remove old Bridge

TOTAL COST FOR STRUCTURE

08-SBd-18

Type of Estimate PSR
Program Code HB-42
PM 44.30/48.40 & 51.61/68.00
EA 0G690K
PP No. 2860

III. RIGHT OF WAY

Right of Way estimates should consider the probable highest and best use and type and intent of improvements at the time of acquisition. Assume acquisition including utility relocation occurs at the right of way certification milestone as shown in the Funding and Scheduling Section of the PSR. For further guidance see Chapter I, Caltrans, Right of Way Procedural Handbook.

	Current Value	Escalated Rate	Escalated Value
Acquisition, including Excess Lands, Damages and Goodwill	\$442,500	4%	\$517,662
Utility Relocation (State share)	\$0	4%	\$0
Clearance/Demolition	\$0	4%	\$0
RAP '	\$0	4%	\$0
Title and Escrow Fees	\$0	4%	\$0
Construction Contract Work			\$0
TOTAL RIGHT OF WAY (CURRENT VALUE):	\$442,500		
TOTAL ESCALATED VALUE:			\$517,662

ROUND OFF TO: \$518,000

Estimate Prepared By: Vito Santamati Phone # 383-4356 Date 09-Aug-05

Sheet 6 of 6

Attachment C

Preliminary Environmental Analysis Report

CLARIFICATION

When the request for Right of Way (ROW) Data Sheet and Preliminary Environmental Analysis Report (PEAR) were sent out, there were only two Project Study Report Expenditure Authorizations (EA), 0G690K & 0G800K. Subsequently, we've had to reorganize the Project Study Reports from two EA's which have 7 sub EA's to three EA's with no sub EA's. Because of this, EA 0G691K was added to the two original EA's to cover part of Route 18 (PM 17.52/17.90), Route 138 (PM 37.20/37.80), which was originally under 0G690K and Route 2 (PM 0.0/3.70), which was originally under 0G800K. Due to time constraints, the original request was processed since there were no changes to the route limits.

In relation to the above-mentioned changes you will find that for EA 0G691K there are two ROW Data Sheets and two Preliminary Environmental Analysis Reports.

		/20/05	NGIN	EER MUSI	FILL OUT ALL INFOR	MATION THRO	UG!!# 2 BL			
ATE:	T INFORM									
strict		unty	SBd	Route	18 KiloPost (PN	/I) PM 17.52- PM 51.61-		44.3-48.4,	E.A	0G690K
					138	PM 37.2-3	7.5 (138)			
script ork:	ion of Di ar	rainage li nticipated	mprov I to im	ements co pact appro	nsisting of relining an ximately 15 feet beyo	nd replacement and the inlet an	of existing d outlet of	culverts. The these existing	e work in culverts	nvolve is s.
oiect (Engineer	Ly	rdia Ke	ean		Telephone	383-455	5		
-	mental Coo	ordinator	(if -			Telephone	(
ATE I	SA NEEDI	ED		09-01-05	·					
zardous	s waste sites Proiect Feat	s. tures: Ne	w R/W	?no Exc	to this checklist to show avation? yes Railroad known (most likely no)	I Involvement?	proposed Ra Not know Relocation?	n	n and/or p	potential
	Project Setti Current Lan	ing: / Rur	ral yes Ru	; ral	Urban					
	Adjacent La		Ru	ral and adja	cent mountain resident ght industry, commercia	ial communities		U F.O 19	AL1\	
	and attach a	والمراجب والملاام المراج								70 IFOT
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ST's	AFFECTING SITE: Conduct Fie Storage Str	G SITES L	-ISTEE	s as needed O ON CORT	to provide all information: (sp. dumping, etc.)	on available pert	tinent to the	ate Hazardous M (asbestos, le Buildings Sprayed-on	laterials:	- -
ST's irface	AFFECTING SITE: Conduct Fie Storage Str	3 SITES L	LISTED	s as needed O ON CORT	Contamination: (sp. dumping, etc) Surface Staining Oil Sheen	on available pert	tinent to the	ate Hazardous M (asbestos, le Buildings Sprayed-on Fireproofing	laterials:	- -
ST's urface umps	AFFECTING SITE: Conduct Fie Storage Str	G SITES L	LISTED tion Pipelin	s as needed O ON CORT	Contamination: (sp. dumping, etc) Surface Staining Oil Sheen Odors	on available perf	tinent to the	ate Hazardous M (asbestos, le Buildings Sprayed-on	laterials:	- -
ST's urface umps rums	AFFECTING SITE: Conduct Fie Storage Str tanks	G SITES L	LISTED	s as needed O ON CORT	Contamination: (sp. dumping, etc) Surface Staining Oil Sheen Odors Vegetation damage	on available perf	tinent to the	Hazardous M (asbestos, le Buildings Sprayed-on Fireproofing Pipe Wrap	laterials:	- -
ST's urface umps rums	AFFECTING SITE: Conduct Fie Storage Str tanks	G SITES L	LISTED tion Pipelin	s as needed O ON CORT	Contamination: (sp. dumping, etc) Surface Staining Oil Sheen Odors	on available perf	tinent to the	Hazardous M (asbestos, le Buildings Sprayed-on Fireproofing Pipe Wrap Friable Tile Acoustical Plaster	laterials:	- -
ST's urface umps rums ransfor	AFFECTING SITE: Conduct Fie Storage Str tanks	G SITES L	LISTED tion Pipelin	s as needed O ON CORT	Contamination: (sp. dumping, etc) Surface Staining Oil Sheen Odors Vegetation damage	on available perf	tinent to the	Hazardous M (asbestos, le Buildings Sprayed-on Fireproofing Pipe Wrap Friable Tile Acoustical Plaster Serpentine	laterials:	- - :
IST's Surface Sumps Orums Transfor	AFFECTING SITE: Conduct Fie Storage Str tanks	G SITES L	LISTED tion Pipelin	s as needed O ON CORT	Contamination: (sp. dumping, etc) Surface Staining Oil Sheen Odors Vegetation damage	on available perf	tinent to the	Hazardous M (asbestos, le Buildings Sprayed-on Fireproofing Pipe Wrap Friable Tile Acoustical Plaster	laterials:	- - :
ST's urface umps rums ransfor andfill other	AFFECTING SITE: Conduct Fie Storage Str tanks mers	Por	Pipelin	s as needed O ON CORT	Contamination: (sp. dumping, etc) Surface Staining Oil Sheen Odors Vegetation damage Other	on available perf	gal	Hazardous M (asbestos, le Buildings Sprayed-on Fireproofing Pipe Wrap Friable Tile Acoustical Plaster Serpentine Paint	laterials:	er
ST's urface umps rums ransfor andfill other	AFFECTING SITE: Conduct Fie Storage Str tanks mers	Por	Pipelin	s as needed O ON CORT	Contamination: (sp. dumping, etc) Surface Staining Oil Sheen Odors Vegetation damage Other	on available perf	gal	Hazardous M (asbestos, le Buildings Sprayed-on Fireproofing Pipe Wrap Friable Tile Acoustical Plaster Serpentine Paint	laterials:	er
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ST's urface tumps transfor andfill other Other cobserva	AFFECTING SITE: Conduct Fie Storage Str tanks mers comments artions ETERMINAT he project he is known or	Pomba	Pipelin nds sins	azardous w	Contamination: (sp. dumping, etc) Surface Staining Oil Sheen Odors Vegetation damage Other Caste involvement? Novelvement, is additional	on available perfer YES, DESCRIE	gal Didded before t	Hazardous M (asbestos, le Buildings Sprayed-on Fireproofing Pipe Wrap Friable Tile Acoustical Plaster Serpentine Paint No Maza	laterials: ad, etc.) Other	er



Categorical/Statutory Exemption

Environmental Impact Report

Negative Declaration / focused ND

Preliminary Environmental Analysis Report

Proi	ect	Inform	ation

District <u>08</u> County <u>SBd</u> Route	18 & 138 Post Mile <u>Var</u>	ious EA	A	0G690K	
Project Title: <u>Drainage Improveme</u> San Bernardino County	ents at various locations a	long State Rou	ite 18 ai	nd State Ro	<u>ute 138 in</u>
Project Manager Mohammad Moll	azadeh P	hone #3	88-718	4	
Project Engineer Lydia Kea	n Phone # <u>383-4555</u>				
Environmental (Manager) Office (Chief Boniface Udotor P	hone # Ext. 1	<u> 387</u>		
Environmental Planner Generalist	<u>Unknown</u> Phone #	ŧ			
Project Description					
Purpose and Need: The project pro reached their design life.	pposes to rehabilitate or re	place existing	deterio	rated culve	rts that have
Description of work: <u>Drainage imp</u> in San Bernardino County. The im will include clearance of approxim	provements will include i	elining or repl	lacing e	xisting culv	and SR-138 erts. Work
Alternatives: No Build Alternative Alternative: All identified culverts description of work.	c: Culverts will remain in on SR-18 and SR-138 wi	disrepair and u Il either be ref	<u>ıltimate</u> nabilitat	ely fail. Buil ed or replac	. <u>d</u> :ed per above
Anticipated Environmental App	roval				
CEQA	NEPA				

Environmental Doc. type - the Dept. anticipates that under the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA) the appropriate environmental document for this project will be an Initial Study/Environmental Assessment (IS/EA). The environmental documentation determination and required technical studies/reports determination will be made when the project is environmentally scoped. Bio - all required Biological studies shall be completed. Cultural - all required Cultural studies shall be completed. Env. Eng. - need to do a Haz. Waste Investigation (ISA), and Noise/Air/Water studies may be required.

Categorical Exclusion

Finding of No Significant Impact

Environmental Impact Statement

V

PSR Summary Statement

An initial Study/Environmental Assessment (IS/EA) will be required in compliance with Division 13, Public Resources Code (State), and 42 U.S.C. 4332(2) (Federal). A Mitigated Negative Declaration and Finding of No Significant Impact (ND/FONSI) is anticipated.

Anticipated Environmental constraints on this project include but are not limited to those in the following table:

Resource	Study Area / Impact
Multiple State and Federally listed	Project limits of construction will require
Endangered Species.	formal/informal Section 7 consultation with USFWS
	and 2080.1 concurrence from CA DFG.
Visual Resources	Removal of vegetation, slope modification and
	disturbed areas will require visual assessment and a
	scenic resources evaluation. Mitigation will be
	required for visual impacts and revegetation
Right of Entry Permits	Some of the land adjacent to the proposed project is
	not within Caltrans Right of Way. The district has had
	problems acquiring permission to enter on these types
	of parcels to complete Environmental surveys/work.
Permits	The project will require 404, 401 & 1602 permits from
	the ACOE, RWQCB and DFG, respectively.
Migratory Bird Treaty Act	No vegetation can be removed from February 15-
	September 15
Federal Lands	Many of the culvert locations are located on lands
	administered by the Federal Government.
	Permission/coordination and or permits from the
	administering agencies will be required.

Special Considerations

Endangered Species

This project may affect sensitive biological resources. Either informal or formal Section 7 consultation with the USFWS on the desert tortoise, least Bell's vireo, southwestern willow flycatcher, mountain yellow-legged frog, bald eagle, Cushenbury milk-vetch, and other federally listed plants may be required depending on the outcome of surveys. In addition, California spotted owls are a USFS species of concern, and are located within the project area. In the desert portions of this project, Joshua Trees may need to be relocated.

<u>Permits</u>

Permits from the State Department of Fish and Game (1602), U. S. Army Corps of Engineers (an individual 404 Permit will probably be required because wetland/waters impacts may exceed the threshold acreage), and the Regional Water Quality Control Board (401) will be required. Additionally, Executive Order 11990 requires an avoidance alternative analysis for wetland impacts unless there is no practicable alternative available. Impacts to waters of the U.S. and wetlands from the project will need to be quantified. Resource agencies may place their own conditions on the permit approval that will result in additional mitigation and or project constraints.

Federal Agency Involvement

It is likely that many of the proposed project locations are located on USFS and BLM property in locations that do not have drainage easements or will require access that has not previously been approve by these agencies and will required coordination and approval/permits from these agencies.

Visual

Route 138 is eligible for designation as a California Scenic Highway, Route 18 is a designated USFS Scenic Byway, of which a portion of Route 18 within the project limits is also a eligible for designation as a State Scenic Highway. Both of these routes have a high number of sensitive viewers traveling to and from recreational areas within SBNF. Impacts to these resources need to be minimized through avoidance and minimization to the maximum extent practicable.

Right of Entry Permits

It is highly likely that Biological surveys for Endangered Species and wetlands will be required for this project. Permission to enter onto public and private property to complete work necessary for PA/ED will be required prior to Begin Environmental (165 WBS activities).

Anticipated Project Mitigation

Anticipated project mitigation will include: Revegetation of disturbed areas, compensation for impacts to endangered species & permit compliance including mitigation for waters and wetland impacts (see Attachment A)

Disclaimer

This report is not an environmental document. Preliminary analysis, determinations, and estimates of mitigation costs are based on the project description provided in this report. The estimates and conclusions provided are approximate and are based on cursory analysis of probable effects. This report is to provide a preliminary level of environmental analysis to supplement the Project Study Report. Changes in project scope, alternatives, or environmental laws will require a re-evaluation of this report.

Reviewed by:	
Topingal Por	Date: 8-18-05
Environmental Office Chief	
Molacina Mollacin	Date: 8-24-05
Project Manager	

Environmental Technical Reports or Studies Required

	Study	Document	N/A
Community Impact Study Farmland Section 4(f) Evaluation Visual Resources Water Quality Floodplain Evaluation Noise Study Air Quality Study Wild and Scenic River Consistency Cumulative Impacts Storm Water Data Report	00000000000	1010100011	00000000
ASR HRER-Archaeology HRER-Architecture HPSR Section 106 / SHPO Native American Coordination Paleontology Section 4(f) Evaluation Visual Resources	>>>>000>>)))))) O	000000000
Other Finding of Effect Data Recovery Plan	0	0	0 0
Hazardous Waste ISA (Additional) PSI Other	0	, 0	0 V
Endangered Species (Federal) Endangered Species (State) Species of Concern (CNPS, USFS, BLM Biological Assessment (USFWS, NMF- Wetlands Invasive Species Natural Environment Study NEPA 404 Coordination Other — USFS Coordination		000000000000000000000000000000000000000	00000000

Permits 401 Permit Coordination 404 Permit Coordination 1602 Permit Coordination City/County Coastal Permit Coordination)	0 0 0 0	000
State Coastal Permit Coordination NPDES Coordination US Coast Guard (Section 10)	٥	□	7
Caltrans Permit (NPDES) (Already issued)	<u> </u>	✓	<u> </u>
General Permit (NPDES) (Already issued)	ū	•	

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Discussion of Technical Review

<u>Socio-economic and Community Effects</u>. The project is not expected to have any effects on the local community or the economy.

<u>Farmlands</u>. Based on information provided for the PEAE no impacts to Farmlands or Williamson Act lands are anticipated at this time.

4(f) Impacts. Potential for Section 4(f) resources (i.e., historic sites) within the project limits is presently unknown. If impacts to resources on or eligible for the National Historic Register will a Section 4(f) evaluation will be required. If a section 4(f) evaluation is required an alternative will have to be developed that will avoid all Section 4(f) resources if the Section 4(f) programmatic agreement cannot be utilized.

<u>Visual Effects.</u> Route 138 is eligible for designation as a California Scenic Highway, Route 18 is a designated USFS Scenic Byway, of which a portion of Route 18 within the project limits is also a eligible for designation as a State Scenic Highway. Both of these routes have a high number of sensitive viewers traveling to and from recreational areas within SBNF. A scenic resource evaluation and visual impact assessment will be required to assess potential visual impacts from the proposed drainage improvements. Aesthetic treatments to excavated slopes and drainage facilities may be required to mitigate visual impacts. [400 hours should be requested for landscape under WBS Code 165 for this project]

Water Quality and Erosion. The Caltrans Statewide Storm Water Management Plan (SWMP) requires Project Development personnel to assess the need for storm water Best Management Practices (BMPs) and incorporate these BMPs as appropriate during the initial planning and design phases for all Caltrans projects. A Storm Water Data Report (SWDR) is a planning document to aid in determining if Treatment, Design Pollution Prevention and temporary construction BMPs should be incorporated into a project. The SWDR form in Appendix E of the Storm Water Project Planning and Design Guide should be completed; if it is determined that specific BMPs are appropriate and feasible, preliminary design should be performed to determine size and location. Costs and additional R/W (for BMPs) will also be considered at this time. This information should be included in the Preliminary Environmental Analysis Report (PEAR).

The site should be evaluated for potential water quality impacts associated with the project. If site dewatering is required for new construction, a dewatering plan is required. Site access for construction must be included in any water quality analysis.

Floodplain. Although a large number of the proposed culvert rehabilitation sites are within FEMA Zone A (Refer to FIRM Maps 8005, 8010, 7310, and 7315), the proposed construction should have only a positive effect on these watercourses. Hydraulic does not feel that any flood plain studies are warranted. However, if the regulatory agencies should disagree and required flood plain studies, they will involve a substantial number of hours, say 40 hours per study.

Air This project was reviewed by the District 8 Environmental Engineering Branch on August 2, 2005. It was determined that this project is exempt from all emissions analyses because it is a Table 1 project listed in the Carbon Monoxide (CO) Protocol (40 CFR 93.126). However, the project must still comply with the appropriate AQMD, Rule 403 for South Coast Air Quality Management District (SCAQMD) or Rule 403/403.2 for the Mojave Desert Air

Quality Management District (MDAQMD), during active construction operations capable of generating fugitive dust.

<u>Noise</u> This project was reviewed by the District 8 Environmental Engineering Branch on July 27, 2005. Since this project is not a "Type 1 project," no noise study is required.

Wild and Scenic River. A review of the National Wild and Scenic Rivers System Database and the California Wild and Scenic Rivers Database indicate there are no designated rivers within the project limits as of 7/7/2006. The databases should be reviewed again during the environmental process to ensure no new rivers within the project are have been designated.

<u>Cultural Resources</u>. Cultural resource reports will be prepared for Section 106 compliance. An archaeological field survey and records search will be required. The Area of Potential Effects (APE) must include all temporary and permanent easements, access roads, work and staging areas. The project area has a moderate level of sensitivity for potentially significant cultural resources. Any subsequent changes in project scope may require additional cultural resource review. No compensation associated with cultural resource compliance is anticipated at this time.

Assumptions

- The description of this project is quite vague: maintenance activity of scores of unidentified culverts over a large stretch of highway. The most practical means of making a preliminary analysis for cultural studies is to assume that the project footprint includes the entire roadway and all land for approximately 20 meters from the road's edge. Though this may result in an overestimate of time and resources, to do otherwise may result in gross underestimation.
- It is assumed that issues involving right-of-way, proscribed rights, and requirements of involved Government landowners such as the National Forest may impede progress and make the undertaking more time consuming. Without more detailed project plans, the degree to which this holds true in incalculable.
- Project will not require any additional area for staging, materials storage, detours, etc.
- If archaeological resources are found and, particularly, if they are unavoidable during construction, additional archaeological work will be required.

Native American Coordination. Coordination with the Native American Heritage Commission and local tribes will be required.

<u>Paleontology</u>. Based on the information provided for the PEAR No paleontological impacts are anticipated at this time.

<u>Hazardous Waste/Materials</u>. An Initial Site Assessment (ISA) was prepared on 7/7/05 to address the potential for hazardous waste. The hazardous waste coordinator identified the project as "Low Risk" for hazardous waste potential with "no Aerial Deposited Lead concerns."

<u>Biological Resources</u>. This project may affect sensitive biological resources. Either informal or formal Section 7 consultation with the USFWS on the desert tortoise, least Bell's vireo, southwestern willow flycatcher, mountain yellow-legged frog, bald eagle, Cushenbury milk-vetch, and other federally listed plants may be required depending on the outcome of surveys. In

addition, California spotted owls are a USFS species of concern, and are located within the project area. In the desert portions of this project, Joshua Trees may need to be relocated.

Wetlands. A delineation of jurisdictional wetlands and waters of the United States needs to be performed. Executive Order 11990 requires an avoidance alternative analysis for wetland impacts unless there is no practicable alternative available. Impacts to waters of the U.S. and wetlands from the project will need to be quantified.

<u>Invasive Pest Plant Species.</u> Executive Order 13112 requires that any Federal action may not cause or promote the spread or introduction of invasive species. It is not anticipated that this project would promote the spread of invasive plant species.

Right-of-Way Relocation or Staging Area. No new Right-of-Way is indicated for this project. Material sites, disposal sites and temporary construction easements are indicated, but not identified. These areas, which must be identified prior to initiating environmental studies, will require complete environmental evaluation as part of this project.

Mitigation. Mitigation for temporary and permanent impacts to sensitive biological resources (wetlands, riparian vegetation, regulated plants and animals) will be required. Construction windows between February 15th and September 1st will be required for LBV and SWIFL mitigation, and temporary exclusion fencing may be required for frogs and tortoise during construction. Night work may be limited to avoid impacts to the bald eagle. Reasonable mitigation costs are generally considered to be up to 10% of the project cost. For this project, mitigation could include restricted construction scheduling, habitat enhancement, habitat restoration or replacement; the cost of which is estimated to be around \$500,000.

Revegetation. If highway planting/revegetation is required it will cost approximately \$570,000 per hectare (\$230,000/ acre) of disturbed area for mitigation/planting and establishment costs through the 5-year monitoring period. At this time 1-acre worth of planting/mitigation is being requested. Subsequent to further design this amount could increase or decrease depending on the impacts identified for the proposed project.

<u>Permits.</u> Permits from the State Department of Fish and Game (1602), U. S. Army Corps of Engineers (an individual 404 Permit will probably be required because wetland/waters impacts may exceed the threshold acreage), and the Regional Water Quality Control Board (401) will be required. Resource agencies may place their own conditions on the permit approval that will result in additional mitigation and or project constraints.

List of Preparers

Hazardous Waste Review by	Rosanna Roa	Date 7/7/05
Air Quality Reviewed by	Meenu Chandon	Date 08/01/05
Noise Reviewed by	Mike Goodhue	Date 07/28/05
Biological Review by	Melissa Williams	Date 08/01/05
Cultural Review by	Kurt Heidelberg	Date 07/18/05
Community Impact Review	Jason Walsh	Date 08/05/05
Visual Review by	Cathy Jochai	Date 07/01/05
Floodplain Review by	Roy King	Date 08/04/05
Water Quality and Erosion Revie		Date 07/27/05

Attachment A - PEAR Mitigation and Compliance Cost Estimate*(Standard PSRs Only)

Dist.-Co.-Rte.-KP/PM: <u>08-Sbd-18 & 138 Various</u> EA: <u>0G690K</u>

Project Description: <u>Drainage improvements are proposed for several locations along SR-18 and SR-138 in San Bernardino County. The improvements will include relining or replacing existing culverts. Work will include clearance of approximately 15 feet beyond culvert inlets and outlets.</u>

Person completing form/Dist. Office.: Jason Walsh

Project Manager: Mohammad Mollazadeh Phone number: 388-7184

Date: 8/16/2005

]	Mitigation		Compliance
[Project Feature ¹	Enviro.	Statutory	Permit &
		Obligation ²	Require.3	Agreement⁴
Fish & Game 1601 Agreement			l	1
Coastal Development Permit				
State Lands Agreement				
NPDES Permit		**5		
COE 404 Permit- Nationwide			1	1
COE 404 Permit- Individual				
COE Section 10 Permit				
COE Section 9 Permit				
Other:				
Noise attenuation				
Special landscaping	75	1		
Archaeological				
Biological		400		
Historical				
Scenic resources	75			
Wetland/riparian				
Other:				
Revegetation of disturbed	230			
areas				
TOTAL (Enter zeros if no cost)	380	400	2	2

[•] Costs are to be reported in \$1,000's.

• Costs are to include all costs to complete the commitment including: 1)capital outlay and staff support; 2) cost of right-of-way or easements; 3) long-term monitoring and reporting; and 4) any follow-up maintenance.

¹ Mitigation that Caltrans would normally do if not required by a permit or environmental

agreement.

² Mitigation that Caltrans would not normally do but is required by conditions of a permit or environmental agreement.

³ Mitigation that Caltrans would not normally do and is not required by a permit or

Enviro. Agreement, but is required by a law.

⁴ Non-mitigation Caltrans would not normally do but is required by conditions of a permit or agreement.

*Prepare a separate form for each practicable alternative in the PSR.

	ATTACHM	ENT B -	2006 SH	PP PEA	R Resou	rces by WB	S Code -	Workpi	an		
EA: 0G690K	County:Sbd			Route:18	3 & 38			PM:Var	า์ดแร		
	nage improvements	ara arana	and for an			SP 18 and S	D 138 in S				
Description, Drain	nage improvements	are propo	Sed 101 34				NPDES		Tunio coa		
WBS Task	Activity Code	Senior/Geni	Env. Mgt.	Senior/ Biology	Seniori Cultural	Noise/Alr/Haz Waste	Work by Design	Storm	Hydrology	Land	Total
Assig	ned Unit		170	168	178	332		242	215	216	
Project Management											
	gement PID Component		7				30	10			47
100.05.05 - Proj. Init.			2								2
100,05,10 - PID Exec			4				10	10			24
100.05.15 - PID Close	cut gement PA & ED Compon						20	10			30
100.10.05 - PA&ED in		eut	4				20	10			4
	xec. & Ctrl./PDT (PA & EL	51					10	10			20
100.10.15 - PA&ED C											
100,10,20 - Project St			2								2
100.10.25 - Project Ur 100.10.30 - Prep/Upd	Admin Record PA&ED		2				-				2
100.15 - Project Mana	gement PS&E Componen	†					20	10			30
100.15.05 - PS&E Init			50								50
100.15.10 - PS&E Ext 100.15.15 - PS&E Clo	ec. & Ctrt. /PDT (PS&E)	-	2				10	10	<u> </u>	 	22
100.15.15 - Project St											
100.15.25 - Project Ur	shelving (PS&E)										· ·
100, t5 30 - Prep/Upd	ate Admin Record PS&E										
100.20 • Project Mana 100.20 05 – Const. Ini	gement Construction Com	φ	50						 	 	50
100.20.10 - Const. Ex	ec. & Ctrl.	-		·							-
100.20 15 - Const. Ck											
100.20.20 - Project Si											•
	nshelving (Construction) ate Admin Record Const					<u> </u>					
	gement R/W Component		 								-
100.25.05 - RW Init. 8	Ping.					<u> </u>					•
100.25,10 - RW Exec											
100.25.15 - RW Close 100.25.20 - Project SI									ļ		
100.25.25 - Project U	nshelving (Right of Way)										-
100.25.30 - Prep/Upd	ate Admin Record RW										
Total Project Manager	nent		125			<u> </u>	100	60			285
Project Initiation Doc	Liment (BID)					-					
150.05 - Define and A		20								_	20
150.05.05 - Obtain/Re		10									10
	om Water Design Issues/	SWDR	ļ <u> </u>			ļ <u>.</u>	10	10			30 30
150.10 - Identify Poter 150.10.05 - Meet with			 	8		 	10	10			28
	ct Alts/Select 8MPs/SWI)R				<u> </u>	10	10			20
150.15.55 - Prepare P	reliminary Project Cost Es	st					5	10			15
150.20 • PEAR 150.20.05 • Perform Ir	I Itiai Noise Shide	50	100	16		 		 	 		·
150.20.10 - Perform H	az Waste Invest. (ISA)	†									
150.20.15 - Perform L	andscape/Aasthetic Analy	sis									· ·
150.20.20 - Perform in	hitial NEPA/404 Coord.		 	16	 		ļ		ļ		16
150.20.25 - Perform Ir 150.20.30 - Perform Ir	idial Biology Study idial Records/Lit. Search f	or Cult Res		19		 		 	 	-	
150.20.40 - Perform Ir	iitial CIA, Land Use & Gro										5
150,20.45 - Perform Ir	nitial Air Quality Study										8
150.20.50 - Perform Ir	ntial Water Quality Studie: nitial Floodplain Studies	1	1		 -	 	-	├			
150.20.60 - Prepare P	reliminary Env. Analysis	 		 		 	 	 	 		
150.20 65 - Perform to	ntial Paleontology Study										·
	titial Native American Coc							<u> </u>			
150.25 - Review PID Total PID		10 95	108	40		ä	10 85	70	 		33 386
, 500, 7, 10		33	100	7.9.	L	<u> </u>	33	''	 	 	545
Perform Preliminary	Engineering Studies an		aft Project R	eport							
160.05 - Review and		10				ļ	10	10			30
160.05.05 ~ Review A	pproved PID entechnical Information	10		 	 	 	 	-	-	1	10
	raffic Data & Forecasis	10		<u> </u>			<u> </u>	†	<u> </u>	†	10
180.05.30 - Review P	roject Scope	10			Ļ					ļ	10
	Selection Based on Env.	10				ļ	60	60		ļ	130
160.10.20 ~ Perform \	/aiue Analysis Hydraulics/Hydro Study	 	 	 		 	 	 	-		
	Planting Des Concepts	+	 	—	<u> </u>	<u> </u>		 			<u>;</u>
	and and controls		<u> </u>		•	<u> </u>					

WBS Task Activity Code	Senior/Gen	Env. Mgt.	Senior/ Biology	Seniori Cultural	Noise/Air/Haz Waste	NPDES Work by	Storm Water	Hydrology	Land	Total
160, 10, 20 Prepare Draft Project Report	10	-	Biology	Canalai	174510	Design	******		scape	10
160.15.05 - Prepare Cost Est. for Alternatives	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					10	5			15
160.15.25 - Circ. Rev & App Draft PR	10	5								15
160.30 - Dev Env. Study Request/Obtain Rights		10								15
Total Peri Pre Eng Studies	85	15	•		•	80	75	<u> </u>		255
Perform Environmental Studies and Prepare	Draft Enviro	nmental Doc	ument			·		 		
165.05 - Perform Env. Scoping & Select After, F.	50									50
165.05.05 - Rev Project Information	10	25	4							39
165.05.10 - Pub & Agency Scoping 165.05.15 - Select All for Fut Study	10	5								15
165.05.20 - Maps for Env Evaluation	5		В							13
165.10 - Perform General Env. Studies	10									10
165.10.05 - Surveys & Map for Study	40									
165.10.10 - Obtain Rights of Entry 165.10.15 - CIA. Land Use & Growth	10 50					——		 		10 50
165, t0.20 - Perform Visual Impact Analysis	10								400	410
165.10.25 - Noise Study	10									10
165.10.30 - Air Quality Study	10									10
165.10.35 – Water Quality Studies 165.10.40 – Energy Studies	10	·	-		<u> </u>	10	30	 		50 10
165.10.45 - Sum Geatech Report	20					-				20
165.10.50 - Site Investigation HW	10									10
165.10.60 - Prepare Floodplain Evaluation Repo	10							40		50
165.10.65 - Paleontology Study 165.15 - Perfrom Biological Studies	5		100					 		105
165.15.05 - Biological Assessment	20		720		·····					740
165.15.05 - Update Preliminary Project Cost Est		1								
165.15.10 - Wellands Study	10		64							74
165.15.15 - Resource Agency Coord	10		40 500							50
165.15.20 - NES Report 165.20 - Perform Cultural Resource Studies	10		900	16						610 16
165.20.05 - Archaeology Survey				24						24
165 20.05.05 - Prepare APE /Study Area Map										
165.20.05.10 - Conduct NA Consultation				16						16
165.20.05.15 - Perform Records Search 165.20.05.20 - Conduct Field Survey	-			50 40						60 40
165.20.05.25 - Prepare ASR										- 74
165.20.10 - Perform Extended Phase 1 Archy S	ludies			20						20
165.20.10.05 - Conduct NA Consultation	L									
165.20.10.10 - Prepare Extended Phase I Proportion 165.20.10.15 - Conduct Field Investigation	35al				-					•
165.20.10.20 - Analyze Malenais					· · · · · · · · · · · · · · · · · · ·					
165.20.10.25 - Prepare Report										
165.20.15 - Phase II Archy Studies					-					•
165.20.15.05 - Conduct NA Consultation 165.20.15.10 - Prepare Phase II Proposal						— —				-
165.20.15.15 - Conduct Field Investigation										 -
165.20.15.20 - Analyze Materials										•
165.20.15.25 - Prepare Report										-
165.20.20 - Hist & Architect Studies 165.20.20.05 - Prepare Prelim APE/SAM				40		 		-		40
165.20.20.10 - Prep Hist Res Eval Rpt - Archy				80						80
165.20.20.15 - Prep Hist Res Eval Rpt - Arct				40						40
165.20.20 20 - Prepare Bridge Evaluation				10						
165.20.25 - Cultural Res Comp Docs 165.20.25.05 - Prepare Final APE Maps	-			10						10
165.20.25.10 - Perform PRC 5024.5 Consult				24				 		24
165.20.25 15 - Prep HPSR/Det Efig/HRCR										
165.20.25.20 - Prep Finding of Effect								L		····-
165.20.25.25 - Prep Archy Data Recovery Pin 165.20.25.30 - Prepare MOA			 	 				-		•
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Perform Environmental Studies and Prepare		nmental Doc		Inued)						
165.25 - Prepare & Approve DED	50		16							66
165.25.05 – Prepare DED 165.25.10 – 4(f) Evaluation	800 75	10	8	40						858 75
165.25.15 - CE/CE Determination	·······		-	10		 	<u> </u>			10
165.25.20 - Peer & Other Reviews	100		. 8							108
165.25 25 - Obtain Approval to Circ	100			20						120
165.25.30 - Perform Env Coordination Total Env Studies & Pred DED	1,530	45	1.572	440		10	30		400	104 4.067
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175.05.05 - Master Dist & Iny Lists 175.05.10 - Not Pup Hear & Avail	20	4	<u> </u>			-		ļ		24
173.03.10 " PIOL PUD HEST & AVSE	10	4		L		L		1	l	14

WBS Task Activity Code	Senior/Geni	Env. Mgt.	Senior/ Biology	Seniori Cultural	Noise/Air/Haz Waste	NPDES Work by Design	Storm Water	Hydrology	Land scape	Total
175.05.15 - Pub & Circulate DED	150	10				Cestuit				160
175.05.20 - Fed Const Det (Coastal)										
175.10 - Public Hearing	40									40
175, 10.05 - Need for Pub Hearing	10									10
175.10.10 ~ Pub Hearing Logistics	50				ļ					50
175.10.15 - Cisplays for Pub Hearing	50		3							58 29
175.10.20 - Not Puo Hear & Avail	20		4		<u> </u>					14
175.10.25 – Review Map Displays	10					-				10
175.10.30 - Cisplay Pub Hear Maps	10									10
175.10.35 - Hold Public Hearing 175.10.40 - Dist Rec or Pub Hearing	100									100
175.15 - Res to Pub Hear Comments	200							····		200
175.20 - Select Preferred Alternative	20				· · · · · · · · · · · · · · · · · · ·			T		20
Total DED & Preferred All	1,000	18	12	,			•			1,030
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Prepare and Approve Project Report and Fin	al Environme	епізі Оосили	int							
180.05 - Prepare and Approve PR						10	10	ļ <u> </u>		20
180.05.05 - Update Oraft PR				ļ				<u> </u>		
185.05.10 Rev & App Project Rep	5	6	8			10	30	 _		59
180.10.05 - Prep & Approve FED	300	4	8	├──					-	312 110
180.10.05.95 - Circulate for Review	110	ļ	4	 	 				 	. 79
180, 10,05,10 ~ Revidue to Review Comments	75	 	4	 	 			 	 	50
180, (0.05.15 - Section 4(f) Evaluation 180, (0.05.20 - Findings Report	50			 	 		-	 	—	
180.10.05.25 - Statement of Overriding Consid	 		4		<u> </u>			t	<u> </u>	4
180.10.05.30 - Prepare CEQA Certification	20							1 .		20
180.10.05.35 - FHWA and Approval	300							I		300
180.10.05.40 - Section 106 Cons & MOA								I		
180.10.05.45 - Conduct Section 7 Consult	<u> </u>		1.060					I		1,080
180.10.05.50 - Finalize Section 4(f) Statement	40									40
180, 10,05,55 - Prep Floodplain Only PAF				L. <u>.</u>					Ļ	
190.10.05.60 - Prep Wellands Only PAF			24		ļ					24
180.10.05.65 Coord Section 404 Permit			20					ļ		20
180.10.05.70 - Finalize Mitigation Measures			20		1		<u> </u>			20
180.10.10 - Public Dist of FED	<u> </u>	ļ <u> </u>			 			 		
180.10.10.95 - Resp to Comments on FED		ļ <u>.</u>	8		 			 		
180.15 - Complete Environmetal Compliance	50	<u> </u>	<u> </u>	 	 	ļ	 	 		50
180.15.05 - Prep & App ROD (NEPA) 180.15.10 - Prep & File NOD (CEQA)	40			···	 	 			 	40
180.15.20 - Prep/Update Env Commitments	40	10	16	· · · · · · · · · · · · · · · · · · ·			 			86
185.05 - Review Update Information (30% Con:			——··	i	 			 -		20
185.05.05 - 30% Constructability Review	10	· · · · · ·	8		 		i	i		18
185.05.10 - Rev. and Appr Project Report	10		8		1		<u> </u>			18
185.15 - Perform Preliminary Design	1					190	30		L	130
185.20 - Obtain Engineering Reports		Ĭ	Ĺ	L	L	5	5		<u></u>	10
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200.00 - Obtain Necessary Storm Water Permi	s 10			 	-			 	 -	10
200.15 - Utility Conflict Resolution	10	 	 	 	 	 	 	 	 	10
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205.00 - Obtain Necessary SW Permits/Agmts	PHONE	15	t· — —	 	†	50	20	t	1	85
205.05 - Determine Required Permits	+	1 - '	20		1	1	1	1		20
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205.10.05 - Army Corp Permit (404)	1	<u> </u>	included		1	1				
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205.10.15 - US Coast Guard Permit			L		1	1	L	.	<u> </u>	
205.10.20 - DFG Permit (1601/1603)			included			<u> </u>		<u> </u>		
205.10 25 - Coastal Dev Permit				 	ļ		ļ	1	_	
205.10.30 - Loc Agey Concurrence	1	ļ <u> </u>	Ļ		 	1	-	 	 	- —-
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205.10.50 - RWQC8 Permit (401)	+	+	inciuded 8		†	 	—	 	+	8
205.10.60 - Update Summary of Env Commit 205.10.95 - Other Permits	+	+	 °	 	1			+	 	
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205.20.05 - Draft Fwy Agreement	+	+	 	1	†	1		 	 	·
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205.20.15 - Prep Final Fwy Agree	 									·
205.20.20 - Execute Fwy Agreement	 					L				
205.25 - Prep Agreement for Material Sites	10	·								10
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Attachment D

Right of Way Data Sheet

CLARIFICATION

When the request for Right of Way (ROW) Data Sheet and Preliminary Environmental Analysis Report (PEAR) were sent out, there were only two Project Study Report Expenditure Authorizations (EA), 0G690K & 0G800K. Subsequently, we've had to reorganize the Project Study Reports from two EA's which have 7 sub EA's to three EA's with no sub EA's. Because of this, EA 0G691K was added to the two original EA's to cover part of Route 18 (PM 17.52/17.90), Route 138 (PM 37.20/37.80), which was originally under 0G690K and Route 2 (PM 0.0/3.70), which was originally under 0G800K. Due to time constraints, the original request was processed since there were no changes to the route limits.

In relation to the above-mentioned changes you will find that for EA 0G691K there are two ROW Data Sheets and two Preliminary Environmental Analysis Reports.

To: JOHN M. ROGERS

Date:August 8, 2005

08-SBd-18-PM 17.52-17.90 PM 44.30-48.40 & PM 51.61-68.0 08-sbD-138-PM37.20-37.50 Drainage improvements, Relining or replacement of existing culverts.

EA: 0G690K

From:

MICHAEL S. ROMO R/W Project Delivery

Subject: Current Estimated Right of Way Costs

We have completed an updated ROW data sheet for estimate of the right of way costs for the abovereferenced project based on maps we received from you **July 13, 2005**, and the following assumptions and limiting conditions:

- [] 1. The mapping did not provide sufficient detail to determine the limits of the right of way required.
- [] 2. The transportation facilities have not been sufficiently designed so that the estimator could determine the damages to any of the remainder parcels affected by the project.
- [] 3. Additional right of way requirements are anticipated, but are not defined due to the preliminary nature of the early design requirements.
- [] 4. We have determined there are no right of way functional involvement in the proposed project at this time, as designed.

Right of Way Lead Time will require a minimum of 12 months after we begin receiving final right of way requirements (PYPSCAN node No. 224), necessary environmental clearance has been obtained, and freeway agreements have been approved. From the date of receipt of final right of way requirements (PYPSCAN node No. 225), we will require a minimum of 25 months prior to the date of certification of the project. Either of these actions may reflect adversely on the District's other programs or our public image generally.

*TOTAL PROJECT HOURS FOR R/W: 108,000

*NOTE: THESE HOURS ARE PRELIMINARY BASED ON THE INFORMATION PROVIDED WITH THE DATA SHEET REQUEST. HOURS ARE SUBJECT TO CHANGE AS NEW INFORMATION IS PROVIDED.

Attachments:

[XX] Right of Way Data Sheet

[XX] Utility Information Sheet

[XX] Railroad Information Sheet

EVNT RW	8-805
COST RW1 - 6	8-8-05
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SCAN	8-8-05
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AGRE	
TPRC	

To: JOHN M. ROGERS

Date:August 8, 2005 08-SBd-18-PM 17.52-17.90

PM 44.30-48.40 & PM 51.61-68.0 08-sbD-138-PM37.20-37.50

Drainage improvements, Relining or replacement of existing culverts.

EA: 0G690K

Subject: Updated Request for ROW data sheet.

1.	Right	of Way Cost Estimate:		
	A.	Acquisition, including Excess Lands Damages, Goodwill, Major Rehabilitation, and Environmental Permits to Enter	\$	Value 500,000.00
	В.	Acquisition of Offsite Mitigation. None Requested.	\$	00.00
	C.	Utility Relocation (State share)	\$	00.00
	D.	RAP	\$	00.00
	E.	Clearance/Demolition	\$	00.00
	F.	Title and Escrow Fees	\$	00.00
	G.	Project Permit Fees	\$	00.00
	Н.	Condemnation Costs	\$	00.00
	l.	Total R/W Estimate:	\$	500,000.00
1a.	J. Real	Construction Contract Work Property Services:	\$	00.00
	A.	Routine Maintenance (Object Code 058)	\$	00.00
	В.	Advertising Costs (Object Code 039)	\$	00.00
	C.	Utility Costs (Object Code 002)	\$	00.00
	D.	Total Real Property Services Estimate:	\$	00.00
2.	Antici	pated Pypscan Date of Right of Way Certification08/2005		
3.	Parce	el Data:		
Are No.		-2 -3 -4 -4 	RR Involve C&M Agrm Svc Contra Lic/RE/Cla Governme Number of Misc. R/W RAP Displ Clear/Dem Const Per Condemna Permits to	tt

To:

JOHN M. ROGERS

Date:August 8, 2005 08-SBd-18-PM 17.52-17.90 PM 44.30-48.40 & PM 51.61-68.0 08-sbD-138-PM37.20-37.50 Drainage improvements, Relining or replacement of existing culverts.

EA: 0G690K

4.Ar	re there major items of construction contract work? Yes No _X (If yes, explain.)
5.	Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, etc.). No right of way requiredX
	Type and Number of Parcels: Partial Full Easements200 Temporary200 Permanent
6.	Is there an effect on assessed valuation? Yes Not Significant No _X (If yes, explain.)
7.	Are utility facilities or rights of way affected? Yes X No (If yes, attach Utility Information Sheet, Exhibit 4-EX-5.)
8.	Are railroad facilities or rights of way affected? Yes No _X (If yes, attach Railroad Information Sheet, Exhibit 4-EX-6.)
9.	Were any previously unidentified sites with hazardous waste and/or material found? Yes None EvidentX (If yes, attach memorandum per Procedural Handbook Chapter 4, Section 4.01.10.00.)
10.	Are RAP displacements required? Yes No _X (If yes, provide the following information.)
	No. of single family No. of business/nonprofit
	No. of multi-family No. of farms
	Based on Draft/Final Relocation Impact Statement/Study dated, it is anticipated that sufficient replacement housing (will/will not) be available without Last Resort Housing.
11.	Are there material borrow and/or disposal sites required? Yes No _X (If yes, explain.)
12.	Are there potential relinquishments and/or abandonments? Yes No _X_(If yes, explain.)
13.	Are there existing and/or potential Airspace sites? Yes No _X (If yes, explain.)
14.	Indicate the anticipated Right of Way schedule and lead time requirements. (Discuss if District proposes less than PMCS lead time and/or if significant pressures for project advancement are anticipated.)
PYP	SCAN lead time (from Maps to R/W to project certification) 6_months.

Date:August 8, 2005

08-SBd-18-PM 17.52-17.90 PM 44.30-48.40 & PM 51.61-68.0 08-sbD-138-PM37.20-37.50 Drainage improvements, Relining or

replacement of existing culverts.

EA: 0G690K

15.	Is it anticip	pated tha	at all Right of Way work will be performed by CALTRANS staff?
	Yes X	No	(If no, discuss.)

Evaluations prepared by:	GM 1/2	1 /
Right of Way:	Name VITO SAN TAMATO	Date <u>\$/4/0</u> =
Railroad:	Name BELLY BOBOSIK	Date <u>8/10/05</u>
Utilities:	Name LAWRENCE KELLY	Date 8/11/35
Government Lands:	Name GARY SKOW	Date 8/10/05
Property Management:	Name KATHY CASEY	Date 8-11-05

Reviewed By:

MICHAEL S. ROMO Senior Right of Way Agent Project Coordinator

San Bernardino Office

Southern Right of Way Region

I have personally reviewed this Right of Way Data Sheet and all supporting information. I certify that the probable Highest and Best Use, estimated values, escalation rates, and assumptions are reasonable and proper subject to the limiting conditions set forth, and I find this Data Sheet complete and current.

PATI SMITH

Right of Way Project Delivery Manager

San Bernardino Office

Southern Right of Way Region

Date

cc: Program Manager Project Manager This utility estimate was prepared using "project specific" data and unit values. This information is not to be utilized for the updating or preparation of this, or any other Right of Way Cost Report or Utility Information Sheet.

08-SBd-18 KP 17.52/17.90 KP 44.30./48.40 & KP 51.61/68.00 08-SBd-138 KP 37.20/37.50 E.A. 0G690K

UTILITY INFORMATION SHEET

1. Name of utility companies involved in project:

SR 18 & 138 Crestline Area Charter Communications Crestline Sanitation District Crestline Village Water District Southern California Edison Company Southern California Gas Company Verizon SR 18 Big Bear Area
Bear Valley Electric Service
Big Bear Area Regional Wastewater Agency
Big Bear Community Services District
Charter Communications
City of Big Bear Lake, DWP
Snow Summit Southwest Gas
Verizon

2. Types of facilities and agreements required:

Overhead cable
Overhead electric
Overhead and underground telephone
Underground gas
Underground sewer
Underground water

3. Additional information concerning utility involvement on this project. Is there any special circumstances/facilities requiring additional lead time?

This project involves drainage improvements consisting of relining or replacement of existing culverts at several locations on State Routes 18 and 138. There should be little or no impact on utilities per the PE. A field review of selected sites affirmed it unlikely that there would be any impact on utilities. Should the scope of the project change a revised Data Sheet may become necessary.

Potholing costs: Phase 1 funding:

None.

5. PMCS Input Information

Total estimated cost of State's obligation for utility relocation on this project: (Phase 9 funding) \$ 0.00_____

Prepared By:

Lawrence Kelly
Right of Way Utility Coordinator

Date 8/8/05

To: JOHN M. ROGERS

Date:August 8, 2005 08-SBd-18-PM 17.52-17.90 PM 44.30-48.40 & PM 51.61-68.0 08-sbD-138-PM37.20-37.50 Drainage improvements, Relining or replacement of existing culverts. EA: 0G690K

RAILROAD AND GOVERNMENT LANDS INFORMATION SHEET

1.	Describe railroad facilities or rights of way affected.
	None
2.	When branch lines or spurs are affected, would acquisition and/or payment of damages to businesses and/or industries served by the railroad facility be more cost effective than construction of a facility to perpetuate the rail service? Yes No_X (If yes, explain.)
3.	Discuss types of agreements and rights required from the railroads. Are grade crossings requiring service contracts, or grade separations requiring construction and maintenance agreements involved?
	None
4.	Remarks (non-operating railroad right of way involved?):
5.	Is Government Lands involved? Yes X No
	If yes, number of parcels 200 1. U.S. Forestry Service- Temporary construction easements
	required for culvert replacement. Agency Name and Explanation:
6.	PMCS Input Information
	RR Involvement No C&M Agreement - SVC Contract - LIC/RE/Clauses - Government Lands Yes Number parcels 200
Prep	pared By: BETTY BOBOSIK Right of Way Railroad Coordinator
Ргер	ared By: GARY SKOW Right of Way Government Lands Coordinator

To: JOHN M. ROGERS

Date: August 8, 2005

08-SBd-18-PM 17.52-17.90 PM 44.30-48.40 & PM 51.61-68.0 08-sbD-138-PM37.20-37.50 Drainage Improvements, Relining or

replacement of existing culverts.

EA: 0G690K

PROPERTY MANAGEMENT/EXCESS LAND INFORMATIONAL SHEET

WBS CODE	WBS ACTIVITY	NUMBER OF PARCELS	HOURS	COST	
	PROPERTY MANAGEMENT		NOT APPLICA	BLE X	
195.40.05	Fair Market Rent Determinations (Residential)				-
195.40.10	Fair Market Rent Determinations (Non-Residential)	<u> </u>			• • •
195.40.15	Regular Rental Property Management Historic House			-	
195.40.20	Property Maintenance and Rehabilitation (Rental Property) Historic House				
195.40.25	Property Maintenance and Rehabilitation (Non-Rental Property)				
195.40.30	Hazardous Waste and Hazardous Materials				
195.40.35	Transfer of Property to Clearance Status		·		
270.25.03	Secure Lease for Resident Engineer's		. <u></u> .		
	Office Space or Trailer	Subtotal			
	EXCESS LAND	•	NOT APPLICA	3LE <u>X</u>	
195.45.05	Excess Land Inventory				
195.45.10	Excess Land Appraisal and Public Sale Estimate				
195.45.15	Excess land Inventory ("Roberti Bill)	-			
195.45.20	Excess Land Sales to \$15,000				
195.45.25	Excess Land Sales from \$15,001 to \$500,000				
195.45.30	Excess Land Sales over \$500,000		-		
195.45.35	CTC and AAC Coordination		·	<u></u>	
		Subtotal			
	/ĭ TOTAL I	HOURS (ON	LY)		

Property Management Excess Land

Attachment E

Transportation Management Plan

TRANSPORTATION MANAGEMENT PLAN (TMP) DATA SHEET 2 for PSR with DTM requirements for PSE and Construction Phase - This TMP is valid until one year from date of preparation, unless the project changes.

T:\DTM.TMP\project docs\SBd\018\050804 0G690K TMP Data Sheet 2.xls (includes signature/background sheet, estimate, table, and DTM requirements)

TEMPLATE: 0 TMP Data Sheet revised 050705.xls.

EΑ

08-0G690K

DATE

Construction period per WPS not available

EST START DATE

EST END DATE

08-SBd-18-71.29/77.89,83.05/109.43 KP 08-SBd-18-44.3/48.4,51.61/68.0 PM

Location:

Various locations on Route 18 in San Bernardino County (total of 177 culverts)

Work:

Reline or replace existing culverts

Documents available: TMP reg. memo, list of locations, draft TMP

BACKGROUND INFORMATION:

DURATION:

WORKING DAYS 225

PROJECT COST: TMP ESTIMATE:

\$6,200,000

\$301,250

4.86%

OF THE PROJECT COST

estimate and PA \$.

but use \$500,000 until more detail available per PE Details: (Explain high impact) Flagging. TMP 2 - increased TMP

IMPACT	High	Medium	Low	NA
STATE HWY	Х			
LOCAL RD		Х		
Ramps/conne	ctors			Х

Prepared by

Signature

Synch Phi

Date

8/4/05

Name

Sybille Phillips

Title

Transportation Engineer

Organization

Caltrans

Telephone/FAX

(909)383-4264/6429

email

sybille.phillips@dot.ca.gov

Approved by

Signature Signile Mark for Particle HS

8/4/05

Patrick Hsu, P.E.

District Traffic Manager Department of Transportation District 8/Operations MS-B20 464 W 4th Street 6th Floor 909 383-4917, FAX 909 383-6429 patrick.hsu@dot.ca.gov

Prepared for REQUESTER (s), phone #:

Lydia D. Kean extn 4555

CC:

John M Rogers extn 4624 (supervisor)

Project Manager

Mohammad Mollazadeh

Project Senior

John M Rogers

HYahya, Ops Surveillance

MKar (D8 Callbox Coordinator routes to SAFEs as needed. Also concerned if loops for supercallboxes or

census stations are damaged)

MBendelhoum (per his request)

DKopulsky, Advance Planning SBd County projects ONLY

RMelgoza

TKasinga

DGreen

DMcClure

RCampos

VGau

MBoone

BWasser or LSartori

RTadi

DTM_Dist08@dot.ca.gov

SPhillips

MHess

UApabio

FZinnurayen (HQ Truck Services Manager for D8)

Steve Dickey (Southern Region Transportation Permits contact for D8)

HTupper@chp.ca.gov (D8 TMC CHP Officer)

JoWilson@chp.ca.gov (Inland Division Cozeep/Mazeep Coordinator)

TMP ESTIMATE	A TO EXPLANTED #4 TO	; ···· E Ā	08-0G690K DATE	8/4/2005
1. Public Information	49 .	NO	YES MAYBE	\$40,000
2. Motorist Information Strategies		NO	YES MAYBE	\$45,000
3. Incident Management		NO	YES MAYBE	\$191,250
4. Construction Strategies		NO	YES MAYBE	\$5,000
5. Demand Management (DM)		NO	YES MAYBE	\$0 ~ .
6. Alternate Route Strategies		NO	YES MAYBE	\$20,000
7. Other Strategies		NO	YES MAYBE	\$0
		•	TMP TOTAL	\$ 301,250

I PAIE	An X in the check box means you need to include this in the project unless staging or work hour changes eliminate the need for the item. A ? in the box means TMP this - please check into this. A blank box means the item is not needed at this time the information received.	anticipates
1	Public Information/Public Awareness Campaign (PAC) BEES 066063A PAC Cost to be reduced by Public Affairs (PA) and PA COST CL COST Construction Liaison (CL) only. Show in Supplemental Work. 20000 20000	COST
	Include Rideshare information in PA/CL project material to encourage vehicles reduction in work area	
1.1 1.2 1.3 1.4 1.5	 X Brochures and Mailers X Media Releases (& minority media sources) Paid Advertising Public Information Center/Kiosk X Public Meetings/PAC Mtgs./Speakers Bureau (show cost also 	
1.6 1.7 1.8 1.9	for room rental) ? Handdeliver notices to vicinity Broadcast fax service Telephone Hotline ? 1-800-COMMUTE (the telephone number is shown on CS-Info signs) - contact Cyrin Kwong, 383-4256, to place msg into the 1800C telephone system.	
1.10 1.11 1.12 1.13 1.14	Visual Information (videos, slide shows, etc.) Local cable TV and News Traveler Information Systems (Internet) X Internet, E-mail Notification to targeted groups: X Revised Transit Schedules/maps X Rideshare organizations X schools ? organizations representing people with disabilities X bicycle organizations	
1.15 1.16	Include PA/CL/Consultant resources in WPS Commercial traffic reporters/feeds - e.g. brief Traffic Information people (TIP) group	
1.17	Others Subtotals \$ 20,000 \$ 20,000 SUBTOTAL	\$40,000
2 2.1	Traveler Information Strategies Project team needs to coordinate with Traffic Design! X Existing Electronic Message Signs (Stationary) - list locations. See Note 5 EB/WB 30 near 330 for work for which 38 could be the detour.	
	New Installation (Stationary) - BEES 860530 CHANGEABLE MESSAGE SIGN SYSTEM - list locations. See Note 5	

TMP	TABLE These PCMS advise motorists to divert at remote advance decision points - outside the usual work limits. Unlike stationary CMS, you are allowed to use them for advance motorist information - e.g. a week ahead. Their placement may need to be cleared environmentally so that they can be included in plans and SSP later. They may be in addition to Traffic Design's PCMS for regular traffic handling in and next to a work area.	DATE 8	i/4/2005
	Placement Details:		
2.3	Extinguishable Signs (only shown because they are on the TMP Guidelines list. Usually found at Weigh Stations - Weigh Station "open/closed".)		
2.4	Ground Mounted Signs / Fabric signs X C40/40A Double Fine Sign - black and white Regulatory speed signs SC6-4 (per MUTCD) C-SPECIAL w/ SC6-2 PANEL ("Dates/Days/Hours/Expect delay") Use when conventional highways or local roads will be affected for longer periods. Use fabric signs if fast moving	Note 2	. 63
	operation. To encourage traffic to detour so delay in your work area is less, use at advance location and add "work location". ? CS-INFO/1-800-COMMUTE Panel Sign Also see 1.9. X Blue and white Rideshare guide signs, including website (1-800-COMMUTE/www.commutesmart.info). Need to be installed at the same time as the		
2.5	funding signs. Commercial Traffic Radio (usually only applicable in the Upper desert)		
	X Highway Advisory Radio (HAR) - Fixed. List locations here. They can be obtained from TMC Manager. See Note 5. SBd-30/330 Highway Advisory Radio - mobile (signs alerting motorists to the HAR will also be needed) Contact TMC manager for assistance with specifications to include portable HARs as bid item in the contract. To avoid FCC fines, CT Portable HAR cannot be used except for emergencies. See Note 5 List proposed locations here:		
2.6 2.7 2.8 2.9 2.10	Lane Closure Web Site X Caltrans Highway Information Network (CHIN) Radar Speed Message Sign (Specter sign) BEES 066064 (approx. EA @ \$30,000) If high approach speed is a concern Bicycle and pedestrian information, e.g. Detour maps	30000	
2.10	Others	\$45,000	
3 3.1	Incident Management X CHP's Construction or Maintenance Zone Enhanced Enforcement Program – COZEEP or MAZEEP. BEES 066061 - show under "State or Agency furnished" in the Cost Estimate. SSP 12-225 has been deleted per HQ OE. See note 1.		
	Check the LC hours and add CHP driving time to/from their office Hourly Cozeep overtime loaded rate: \$ 85 COZEEP - to protect active closures		
	# of days hours # of officers nights hours # of officers (Remember -	\$191,250	

(Remember siable roquiro

# of days hours # of officers nights hours see above (add weekends days af needed. # of days hours # of officers nights hours see above (add weekends days as needed) CHP TRAFFIC HANDLING - reduce delay by keeping traffic flowing and/or to enforce closures - total facility/structure/major traffic shifts/ramps/connectors/local road/extended closures. Freeway closures with local road detours may require 2 officers per intersection to direct traffic. CHP Officer in TMC during major construction closures CHP Officer for Command Post during regional impact construction closures CHP Officer for Command Post during regional impact construction closures CHP Officer for Command Post during regional impact construction closures 3.1 Total \$191,250 BLANK Freeway Service Patrol (FSP) for Construction (CFSP) Shriftruck \$55 BEES 066065 - show under "State or Agency furnished" in the Cost Estimate Short duration or remote area CFSP usually is bid w much higher hourly rates. If emancement of program FSP leasible, CFSP could tele into the lower long-term FSP rates FOR SERVICE WITHIN REGULAR FSP HOURS: A # of trucks: days & hrs: 50 Night support during structure freeway closures and major traffic shifts C # of trucks: days & hrs: 10 Weekend support D # of trucks: days & hrs: 50 CFSP CHP support 50 CFSP CHP Support	IP TABLE	i ji			alai ligatika. Mari	EA	08-0G690K nights require 2 per car)	DATE 8/4/2
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CHP Officer for Command Post during regional impact construction closures CHP Officer for Command Post during regional impact construction closures		•				nours	see above	
days hours # of officers CHP Officer for Command Post during regional impact construction closures				<u> </u>				\$0
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CFSP CHP support 5% of truck cost \$0	D # c	of trucks:		days & hrs:[\$0
	Lo	cal agency (SA	AFE) support	8%	of truck cost		•	\$0
	CF	SP CHP supp	ort	5%	of truck cost			\$0
				GULAR FSP HO	URS AND AR	EA!	•	
CFSP CHP support 20% of truck cost \$0	٥٣	SP CHP succ	ort	2007	of truck acce			60

	Equipment/Supplies 10% - \$0
	% of truck cost unless more detail available
	Cooperative Agreement or Task Order with SAFE Task Order with CHP (Statewide Master Agreement for FSP support).
	Contact District FSP Coordinator for task orders.
	Service Contract 3.3 Total \$0
3.4	CHP Helicopter/Airplane
3.5	Traffic Surveillance Stations for construction impact mitigation (loop detectors and CCTV)
	Keep existing operational during construction
	New CCTV
	New loops
3.6	Call Boxes - also see NOTE 4 in the Revisions & Notes tab TEMPORARY INSTALLATION to mitigate impact (\$4000/box/move from project funds to SAFE). Project Report/Design PE: Please discuss with the D8 Call box coordinator if it is
	feasible to keep this motorist aid available during construction. If it is not, please notify TMP, then other mitigation needs to be considered.
3.7	911 Cellular Calls
3.8	Transportation Management Centers
3.9	Traffic Management Teams (TMT) needed to assist w system diversion/impact reduction
3.10	On-site Traffic Advisor
3.11	Others
	SUBTOTAL \$ 191,250
	Please contact Saleh Yadegari, 4232, to get Delay Calculations, lane closure charts, Table Z and Special events list. Please tell him of any concerns/committments re special LC days, times, season, events; environmental restrictions; if work may be affected by snow and low or high temperatures. E.g. desert heat may delay AC digout curing which may increase traffic impact when vehicles overheat in the queue; etc. IF traffic volumes vary significantly between seasons, consider including different closure charts to avoid a CCO later.
4.1	This TMP presumes work is planned as below. If different, TMP needs to be revised. X Off peak Night except Friday night Weekend
4.2	Project Engineer is responsible to request closure charts for X Flagging Shoulder X Lane Street Ramp
	Connector Extended Weekend Closures Total Facility Closures
	CAUTION: If the Lane Closure Chart (LCC) for full mainline closures (one or both directions on a highway or freeway) does not show a maximum number of allowable days, the PSE
	on a highway or freeway) does not show a maximum number of allowable days, the PSE cannot be certified by DTM/TMP.
4.3 4 4	on a highway or freeway) does not show a maximum number of allowable days, the PSE

TMP T	ABLE	- The Table 1 Annual Company of the EA. The 108-0G690K	DATE 8/4/2005
4.5	Reversible Lanes	en e	
4.6	K-Rail		
/- <u>-</u>	BEES 152372 include supple	- Lateral shifting to open shoulder space early is anticipated. Please mental work funds in the estimate to pay for the extra work. See Standard 12-4, Measurement and Payment. Discuss w Traffic Design!	
	Temporary Tra	ffic Screens	
4.7	Movable Barrier		
4.8	Truck Traffic Restr	ictions	
4.9		jacent construction and planned projects - also on detour routes.	
7.0	Use SSP 07-850	facent construction and planned projects - also on detour routes.	_
4.10		ativa (Disinosativas	~
4.11	=	entives/Disincentives	
4.12	=	nstr. Progress Schedule (CPM)	
4.12	X Specification 12-22		•
		ffic) Right of Way delay. Show in supplemental work. If State (or agency) \$ d closure or orders the contractor to pick it up early, this can be used to pay	5,000
4.13	X Delay Penalty (DP)	Please contact Saleh Yadegari, 4232, regarding Delay Calculations. DP is not related to the R/W Delay shown above!	
4.14	Others	SUBTOTAL \$	5,000
5 5.1	Traffic diversion may	needs to coordinate with RCTC/SANBAG/CVAG increase available work hours.	
		15% is added to the cost of DM elements since the payment to the local ed through the contractor.	
	Instead of a coop,	the local agency will make their own arrangements with RCTC/SANBAG.	
	X PA/CL need to info	rm commuters through RCTC/SANBAG. Funds part of PA/CL.	
5.2	HOV Lanes/Ramps	(Now or Convert)	
5.3	Park-and-Ride Lot	·	
0.0	? LEASED SPACES		
5.4		ent/Pricing (Coordination with local agency required)	
5.5	? BEES 066069 Ride		
5.6	Rideshare Incentives		
	As far as D8 DTM.	TMP knows, incentives to individuals cannot be paid by the State, however, ocal Transportation agency staff time, postage, cost of extra busses, etc.	
	Carpool/vanpo Transit Train Light-Rail	ol	
5.7	BEES 066066		
		Support/Improvements/Shuttle Service	
	School Shuttle		
5.8	? Variable Work Hou		
5.9	? Telecommute	15	
5.10	=	-dif	
5.10	Ramp Metering (M		
5.12	Others	eded - unless already signed. See 2.4	
~··-			

6	Alternate Route Strategies		
	Caution - signed detours may require environment	al clearance	
	Traffic diversion may increase available work hours. Please work with Traff	c Design.	
6.1	Add Capacity to Freeway connector		
6.2	Ramp Closures		
5.3	Temporary Highway Lanes or Shoulder Use		
5.4	Parking Restrictions		
6.5	Street Improvements		
	State R/W - Signals, Widen, etc.		
	Local R/W - Signals, Widen, etc. Coop or Permit may be needed		
6.6	? Local Street USE - Coop or Permit may be needed		
6.7	? Traffic Control Officers (see 3.1 Cozeep)		
6.8	? Signed detour - using State routes		
5.9	? Signed detour - using local streets and roads	\$	20,000
6.10	? Adjust signals		
3.11	Temporary bicycle or pedestrian facilities		
5.12	Others		
	•	SUBTOTAL \$	20,000.00
7	Other Strategies		
7.1	Application of new technology		
7.2	Innovative products		
7.3	Others		
		SUBTOTAL \$	-
	TOTAL	\$	301,250
		I-10-	

Assistant DTM must be invited by project team starting with the 65% Constructability reviews, in addition to TMP. DTM will review Plan Sheets showing the traffic handling for:

- 1 Local area how local traffic will be routed around construction restrictions. For example, Riv-215 Linden lowa Overcrossing replacement requires closure of that structure. How will local traffic be routed?
- 2 Vicinity how highway and freeway traffic will be routed around construction restrictions and diverted. For example, the Riv-215 Linden Iowa Overcrossing replacement requires freeway closures. One of the elements needed would be PCMS on 60, 91 and 215 ahead of the preceding exits. The goal is to divert motorists who know the area and therefore reduce the demand on the signed detour.
- 3 Régional some work, such as 50% of lanes or connector/freeway closures, or major traffic shifts, etc., require diversion at remote approaches. For example, Riv-215 Linden Iowa Overcrossing replacement requires freeway closures. Therefore PCMS are needed around SBd-10/215, EB/WB 60, Riv-15/91, even NB 15/215 in Temecula to encourage motorists to take alternate freeways. Some projects may require diversion into other counties or even States. Projects adjacent to each other or on detour routes for other projects will need to coordinate their closures.

Please contact Dr. Ramakrishna Tadi, D8 Assistant DTM, 909 383-4241, or the DTM desk, 383-5911, DTM Dist08/D08/Caltrans/CAGov, if you need more information.

EA 08-0G690K

DATE

8/4/2005

DTM requires these items to approve closures:

- 1 Email from RE or Permit Inspector that they have reviewed and approved the Contractor's Contingency Plan. This plan shows the way the Contractor will deal with any problems which could prevent the timely opening of closures.
- 2 The Contractor Plansheets showing the elements which will be functional to divert traffic for the proposed work.
- 3 Depending on the work, the Caltrans or local agency Local Area, Vicinity, and Regional plan how to divert traffic. This shows which TOS elements and other resources such as Cozeep, Construction Freeway Service Patrol, Local Agency staff, etc., will be used and where. Potential TOS, TMC, er-TMT use require the project team to get written consent from the TMC Manager during the PSE stage. Resources need to be committed as early as possible so that Construction can make them available to the TMC Manager, Unit 370. DTM.TMP, Unit 375, also requires resources during construction for TMP and DTM involvement.
- 4 Email from Requestor that any necessary public outreach is in progress. Requestor needs to contact PA and CL or the Maintenance Liaision. If a local agency is doing the work, their PA/CL staff is expected to do the outreach and coordinate with CT PA/CL.

Please contact Dr. Ramakrishna Tadi, D8 Assistant DTM, 909 383-4241, or the DTM desk, 383-5911, DTM Dist08/D08/Caltrans/CAGov, if you need more information.

Remember, DTM.TMP is unit 375 and not only needs hours in the early project phases, but also in 270, **especially for projects with complex closure approval.**

Attachment F

Storm Water Data Report

Dist-County-Route: 08-SBd-18

	Kilometer Post (Post I & PM 51.61/68.00	ville) Limits: 1	PIVI 44.30/48.40
	Project Type: Drainag EA: 0G690K	ge Improvemer	nts
	RU: 312	·····	
	Program Identification	n: <u>HB-42 (201</u>	.151)
	Phases: x PID		
	o PA/ED		
	o PS&E		
Regional Water Quality Control	Board(s): Santa Ana / Colorado River Ba	asin	· · · · · · · · · · · · · · · · · · ·
1. Is the project required to c	onsider incorporating Treatment BMPs?	Yes O	No X
2. Does the project disturb m	ore than 0.1 hectares of soil?	Yes O	No X
3. Is the project part of a Con	nmon Plan of Development?	Yes O	No X
4. Does the project potentiall	y create permanent water quality impacts?	Yes O	No X
5. Does the project require a	notification of ADL reuse?	Yes O	No X
Report.			
Estimated Construction Start Date:	May 2009 Construction Comp	letion Date: <u>N</u>	March 2010
	May 2009 Construction Composition, permit number) Yes O Permit #		
		No ta Report has censed Person tion contained onclusions, an ecape Architec	O N/A X been prepared The Licensed I herein and the ad decisions are

1. Project Description

- This Protective Betterment (HB-42) project is located in the County of San Bernardino near Big Bear Lake and City of Big Bear on State Route 18 (SR-18) at various locations between PM 44.3 and PM 68.00 (see attached vicinity map). For the most part, SR-18 is a 2-lane highway except in areas of passing lanes, with 12-foot lanes and shoulders varying from 0 to 4 feet. This project proposes to reline or replace existing culverts. At this stage we anticipate that majority of the culvert will be replace with slightly bigger pipe as consideration from Maintenance request. The decision to reline or replace will be determined in the design as specific data for each culvert becomes available. Depending on the number of culverts that will be relined the amount of soil disturbance may be small.
- As mentioned in the above-mentioned project description, we anticipate that majority of the culverts will be replaced. For the portion where culverts will be relined, we estimated less than 30 square meters of soil disturbance per culvert location.
- The project limit falls within an urban MS4 (City of Big Bear Lake). Portions of the project are in a "high risk" area where contaminates may enter a domestic reservoir.

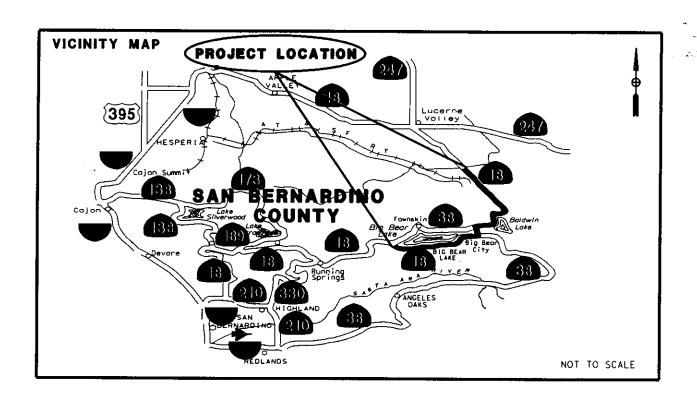
2. Construction Site BMPs

- We anticipate a WPCP will be required during construction.
- The following Construction Site BMPs have been selected to be incorporated into the contract documents: SS-5 (Soil Binders), SC-1 (Silt Fence), SC-7 (Street Sweeping & Vacuuming), NS-8 (Vehicle & Equipment Cleaning), NS-9 (Vehicle & Equipment Fueling), NS-10 (Vehicle & Equipment Maintenance), WM-8 (Concrete Waste-Management), WM-1 (Material Delivery & Storage), WM-2 (Material Use), WM-4 (Spill Prevention & Control) and WM-5 (Solid Waste Management).
- The following Construction Site BMPs will be designated as separate Bid Line Items: SS-5 (Soil Binders), SC-1 (Silt Fence) & SC-7 (Street Sweeping & Vacuuming).
- No pertinent details are known that will impact the strategy used for estimating Construction Site BMPs.
- The SWDR for the PS&E phase will be reviewed by Dave Meress of the Construction NPDES Unit for his concurrence

REQUIRED ATTACHEMENTS

- Vicinity Map
- Evaluation Documentation Form

08-SBD-18-PM 44.30/48.40 & PM 51.61/68.00 AUGUST 2005 EA 0G690K



ON STATE ROUTE 18
AT VARIOUS LOCATIONS FROM LAKE DAM
TO ARCTIC CANYON WASH
IN THE COUNTY OF SAN BERNARDINO

DATE <u>08/11/05</u>

See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPS EA: 0G690K

NO.	CRITERIA	YES 3	NO 3	SUPPLEMENTAL INFORMATION FOR EXEMPTION	
1.	Begin Project Evaluation regarding requirement for consideration of Treatment BMPs	٧		Go to 2	
2.	Is this an emergency or Safety project?		٧	If Yes , go to 12. (Safety Projects must be funded from the 010 SHOPP Program). If No , continue to 3.	
3.	Have TMDLs been established for surface waters within the project limits?	√		If Yes, contact the District/Regional NPDES coordinator to discuss the Department's participation in the TMDL (if Applicable), go to 11 or 4 (as determined by the NPDES Coordinator). **Coordinator* (Dist./Reg. SW Coordinator initials)* If No, continue to 4.	
4.	Is the project within an urban MS4?	1		If Yes , continue to 5. (City of Big Bear Lake) If No , go to 12.	
5.	Is the project directly or indirectly discharging to surface waters?	1		If Yes , continue to 6. If No , go to 12.	
6.	Is it a new facility or major reconstruction?		1	If Yes, continue to 8. If No, go to 7.	
7.	Will there be a change in line/grade or hydraulic capacity?	1		If Yes , continue to 8. If No , go to 10.	
8.	Is the Disturbed Soil Area (DSA) created by the project greater than or equal to 1.2 hectares?		7	If Yes, continue to 11. If No, go to 9. (Total DSA quantity)	
9.	Is the project part of a Common Plan of Development?		1	If Yes , continue to 11. If No , go to 10.	
10.	Are there any Pollution Control Requirements within the project limits? (Contact your Dist./Reg. SW Coordinator)		٧	If Yes, continue to 11. If No, go to 12.	
11.	Consider approved Treatment BMPs for the project.		See Sections 2.4 and either Section 5.5 or 6.5 for BMP Evaluation and Selection Process. Complete Checklist T-1 in this Appendix E.		
12.	Project is not required to consider Treatment BMPs. (Dist./Reg. SW Coord. Initials) (Project Engineer Initials) (Dist./Reg. SW Coord. Initials)	٧	Document for Project Files by completing this form, and attaching it to the SWDR.		
13	End of checklist	V			

Project Evaluation Process for the Consideration of Construction Site BMPs

DATE: <u>08/11/05</u> EA: <u>0G690K</u>

NO.	CRITERIA	YES	NO 3	SUPPLEMENTAL INFORMATION
1.	Will construction of the project result in areas of disturbed soil as defined by the Project Planning and Design Guide (PPDG)?	✓		If Yes, Construction Site BMPs for Soil Stabilization (SS) will be required. Complete CS-1, Part 1. Continue to 2. If No, Continue to 3.
2.	Is there a potential for disturbed soil areas within the project to discharge to storm drain inlets, drainage ditches, areas outside the right of way, etc?	√		If Yes, Construction Site BMPs for Sediment Control (SC) will be required. Complete CS-1, Part 2.
			ļ	Continue to 3.
3.	Is there a potential for sediment or construction related materials and wastes to be tracked offsite and deposited on private or public paved roads by construction vehicles and	*		If Yes, Construction Site BMPs for Tracking Control (TC) will be required. Complete CS-1, Part 3.
	equipment?			Continue to 4.
4.	Is there a potential for wind to transport soil and dust offsite during the period of construction?		*	If Yes, Construction Site BMPs for Wind Erosion Control (WE) will be required. Complete CS-1, Part 4. Continue to 5.
5.	Is dewatering anticipated or will construction activities occur within or adjacent to a live channel or stream?	√		If Yes , Construction Site BMPs for Non-Storm Water Management (NS) will be required. Complete CS-1, Part 5.
6.	Will construction include saw-cutting, grinding, drilling, concrete or mortar mixing, hydro-demolition, blasting, sandblasting, painting, paving, or other	√		Continue to 6. If Yes , Construction Site BMPs for Non-Storm Water Management (NS) will be required. Complete CS-1, Part 5.
	activities that produce residues?			Continue to 7.
7.	Are stockpiles of soil, construction related materials, and/or wastes anticipated?		*	If Yes, Construction Site BMPs for Waste Management and Materials Pollution Control (WM) will be required. Complete CS-1, Part 6. Continue to 8.
8.	Is there a potential for construction related materials and wastes to have direct contact with precipitation; storm water run-on, or stormwater runoff; be dispersed by wind; be dumped and/or spilled into storm drain systems?	✓		If Yes , Construction Site BMPs for Waste Management and Materials Pollution Control (WM) will be required. Complete CS-1, Part 6. Continue to 9.
9.	End of checklist.			nent for Project Files by completing this and attaching it to the SWDR.

E C P

Construction Site BMPs Checklist CS-1, Part 1

Prepared by:	Lydia Kean	Date:_	8/11/05	Distric	t-Co-Route:	08-SBd-18	3
KP (PM): PM 4	4.30/48.40 & 5	1.61/ <u>6</u> 8.00)	EA:	00	3690K	
RWQCB:	Santa Ana/Co	lorado Riv	<u>/er Basin</u>				

Soil Stabilization

~ ~		
Ge	eneral Parameters	one
1.	How many rainy seasons are anticipated between begin and end of construction?	0.10
2.	What is the total disturbed soil area for the project? (ha/ac)	?
	(a) How much of the project DSA consists of slopes 1V:4H or flatter? (ha/ac)	?
	(b) How much of the project DSA consists of 1V:4H < slopes < 1V:2H? (ha/ac)	?
	(c) How much of the project DSA consists of slopes 1V:2H and steeper? (ha/ac)	?
	(d) How much of the project DSA consists of slopes with slope lengths longer then 6 m (20 ft)? (ha/ac)	
3.	What rainfall area does the project lie within? (Refer to Table 2-1 of the Construction Site Best Management Practices Manual)	6
4.	Review the required combination of temporary soil stabilization and temporary sediment controls and barriers for area, slope inclinations, rainy and non-rainy season, and active and non-active disturbed soil areas. (Refer to Tables 2-2, and 2-3 of the Construction Site Best Management Practices Manual for Rainfall Area requirements.)	X Complete
<u>Sc</u>	heduling (SS-1)	
5.	Does the project have a duration of more then one rainy season and have disturbed soil area in excess of 10 ha (25 acres)?	o Yes X No
	(a) Include multiple mobilizations (Move-in/Move-out) as a separate contract bid line item to implement permanent erosion control or revegetation work on slopes that are substantially complete. (Estimate at least 6 mobilizations for each additional rainy season. Designated Construction Representative may suggest an alternate number of mobilizations.)	o Complete
	(b) Edit Order of Work specifications for permanent erosion control or revegetation work to be implemented on slopes that are substantially complete.	o Complete
	(c) Edit permanent erosion control or revegetation specifications to require seeding and planting work to be performed when optimal.	o Complete
>re	eservation of Existing Vegetation (SS-2)	
3.	Do Environmentally Sensitive Areas (ESAs) exist within or adjacent to the project limits? (Verify the completion of DPP-1, Part 5)	o Yes X No



- (a) Verify the protection of ESAs through delineation on all project plans. Complete (b) Protect from clearing and grubbing and other construction disturbance by o Complete enclosing the ESA perimeter with high visibility plastic fence or other BMP. 7. Are there areas of existing vegetation (mature trees, native vegetation, landscape planting, etc.) that need not be disturbed by project construction? Will areas designated for proposed treatment BMPs need protection (infiltration characteristics, X No o Yes vegetative cover, etc.)? (Coordinate with District Environmental and Construction to determine limits of work necessary to preserve existing vegetation to the maximum extent possible.) (a) Designate as outside of limits of work (or designate as ESAs) and show on all o Complete project plans. (b) Protect with high visibility plastic fence or other BMP. o Complete 8. If yes for 6, 7, or both, then designate ESA fencing as a separate contract bid line o Complete item, if not already incorporated as part of design pollution prevention work (See DPP-1, Part 5). Slope Protection 9. Provide a soil stabilization BMP(s) appropriate for the DSA, slope steepness, slope length, and soil erodibility. (Consult with District/Regional Landscape Architect.) (a) Select SS-3 (Hydraulic Mulch), SS-4 (Hydroseeding), SS-5 (Soil Binders), SS-X Complete 6 (Straw Mulch), SS-7 (Geotextiles, RECPs, Etc.), SS-8 (Wood Mulching), other
 - (b) Increase the quantities by 25% for each additional rainy season. (Designated Construction Representative may suggest an alternate increase.)

BMPs or a combination to cover the DSA throughout the project's rainy season.

(c) Designate as a separate contract bid line item.

X Complete

X Complete

Slope Interrupter Devices

10. Provide slope interrupter devices for all slopes with slope lengths equal to or greater than of 6 m (20 ft) in length. (Consult with District/Regional Landscape Architect and Designated Construction Representative.)

N/A

- (a) Select SC-5 (Fiber Rolls) or other BMPs to protect slopes throughout the project's rainy season.
- o Complete
- (b) For slope inclination of 1V:4H and flatter, SC-5 (Fiber Rolls) or other BMPs shall be placed along the contour and spaced 6.0 m (20 ft) on center.



(c) For slope inclination between 1V:4H and 1V:2H, SC-5 (Fiber Rolls) or other o Complete BMPs shall be placed along the contour and spaced 4.5 m (15 ft) on center. (d) For slope inclination of 1V:2H and greater, SC-5 (Fiber Rolls) or other BMPs o Complete shall be placed along the contour and spaced 3.0 m (10 ft) on center. (e) Increase the quantities by 25% for each additional rainy season. (Designated o Complete Construction Representative may suggest alternate increase.) (f) Designate as a separate contract bid line item. o Complete Channelized Flow N/A o Complete

manner.

11. Identify locations within the project site where concentrated flow from stormwater runoff can erode areas of soil disturbance. Identify locations of concentrated flow that enters the site from outside of the right of way (off-site run-on). (a) Utilize SS-7 (Geotextiles, RECPs, etc.), SS-9 (Earth Dikes/Swales, Ditches),

SS-10 (Outlet Protection/Velocity Dissipation), SS-11 (Slope Drains), SC-4

(Check Dams), or other BMPs to convey concentrated flows in a non-erosive

o Complete

(b) Designate as a separate contract bid line item.

Construction Site BMPs Checklist CS-1, Part 2

Prepared by: Lydia Kean	Date: 8/11/05	District-Co-Route: 08-SBd-18
KP (PM): PM 44.30/48.40 & 5	1.61/68.00	EA: 0G690K
RWQCB: Santa Ana/Co	orado River Basin	

Sediment Control

Perimeter Controls - Run-off Control

1. Is there a potential for sediment laden sheet and concentrated flows to discharge offsite from runoff cleared and grubbed areas, below cut slopes, embankment slopes, etc.?

X Yes o No

(a) Select linear sediment barrier such as <u>SC-1 (Silt Fence)</u>, SC-5 (Fiber Rolls), SC-6 (Gravel Bag Berm), SC-8 (Sand Bag Barrier), SC-9 (Straw Bale Barrier), or a combination to protect wetlands, water courses, roads (paved and unpaved), construction activities, and adjacent properties. (Coordinate with District Construction for selection and preference of linear sediment barrier BMPs.)

X Complete

(b) Increase the quantities by 25% for each additional rainy season. (Designated Construction Representative may suggest an alternate increase.)

X Complete

(c) Designate as a separate contract bid line item.

X Complete

Perimeter Controls - Run-on Control

2. Do locations exist where sheet flow upslope of the project site and where concentrated flow upstream of the project site may contact DSA and construction activities?

o Yes X No

(a) Utilize linear sediment barriers such as SS-9 (Earth Dike/Drainage Swales and Lined Ditches), SC-5 (Fiber Rolls), SC-6 (Gravel Bag Berm), SC-8 (Sand Bag Barrier), SC-9 (Straw Bale Barrier), or other BMPs to convey flows through and/or around the project site. (Coordinate with District Construction for selection and preference of perimeter control BMPs.)

o Complete

(b) Designate as a separate contract bid line item.

Storm	Drain	Inlets

3.	Do existing or pr	oposed drainage	inlets exist within	the project limits?
----	-------------------	-----------------	---------------------	---------------------

o Yes X No

(a) Select SC-10 (Storm Drain Inlet Protection) to protect municipal storm drain systems or receiving waters wetlands at each drainage inlet. (Coordinate with District Construction for selection and preference of inlet protection BMPs.)

o Complete

(b) Designate as a separate contract bid line item.

o Complete

4. Can existing or proposed drainage inlets utilize an excavated sediment trap as described in SC-10 (Storm Drain Inlet Protection- Type 2)?

o Yes X No

(a) Include with other types of SC-10 (Storm Drain Inlet Protection).

o Complete

Sediment/Desilting Basin (SC-2)

5. Does the project lie within a Rainfall Area where the required combination of temporary soil stabilization and sediment control BMPs includes desilting basins? (Refer to Tables 2-1, 2-2, and 2-3 of the Construction Site Best Management Practices Manual for Rainfall Area requirements.)

X Yes o No

(a) Consider feasibility for desilting basin allowing for available right-of-way within the project limits, topography, soil type, disturbed soil area within the watershed, and climate conditions. Document if the inclusion of sediment/desilting basins is infeasible.

X Complete

(b) If feasible, design desilting basin(s) per the guidance in SC-2 Sediment/ Desilting Basins of the Construction Site BMP Manual to maximize capture of sediment laden runoff.

o Complete

NOT

Designate as a separate contract bid item.

o Complete

6. Will the project benefit from the early implementation of proposed permanent Treatment BMPs? (Coordinate with District Construction.)

o Yes X No

(a) Edit Order of Work specifications for permanent treatment BMP work to be implemented in a manner that will allow its use as a construction site BMP.

o Complete

Sediment Trap (SC-3)

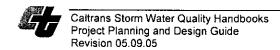
7. Can sediment traps be located within collected or channelized runoff from disturbed soil areas prior to discharge?

o Yes X No

(a) Design sediment traps in accordance with the Construction Site BMP Manual.

o Complete

(b) Designate as a separate contract bid line item.



Construction Site BMPs Checklist CS-1, Part 3

Prepared by: Lydia Kean	Date:8/11/05	District-Co-Route: 08	8-SBd-18
KP (PM): PM 44.30/48.40 & 51	1,61/68.00	EA: 0G690K	
RWQCB: Santa Ana/Col	orado River Basin		• • •

Tracking Controls

Stabilized Construction Entrance/Exit_(TC-1)

- Are there points of entrance and exit from the project site to paved roads where mud and dirt could be transported offsite by construction equipment? (Coordinate with District Construction for selection and preference of tracking control BMPs.)
- o Yes X No
- (a) Identify and designate these entrance/exit points as stabilized construction entrances (TC-1).
- o Complete

(b) Designate as a separate contract bid line item.

o Complete

Tire/Wheel Wash (TC-3)

- 1. Are site conditions anticipated that would require additional or modified tracking controls such as entrance/outlet tire wash? (Coordinate with District Construction.)
- o Yes X No

Designate as a separate contract bid line item.

o Complete

Stabilized Construction Roadway (TC-2)

3. Are temporary access roads necessary to access remote construction activity locations or to transport materials and equipment? (In addition to controlling dust and sediment tracking, access roads limit impact to sensitive areas by limiting ingress, and provide enhanced bearing capacity.) (Coordinate with District Construction.)

o Yes X No

- (a) Designate these temporary access roads as stabilized construction roadways (TC-2).
- o Complete

(b) Designate as a separate contract bid line item.

o Complete

Street Sweeping and Vacuuming (SC-7)

 Is there a potential for tracked sediment or construction related residues to be transported offsite and deposited on public or private roads? (Coordinate with District Construction for preference of including street sweeping and vacuuming with tracking control BMPs.)

X Yes o No

Designate as a separate contract bid line item.

X Complete

APPENDIX E

Construction Site BMPs Checklist CS-1, Part 4

Checklist Co-1, Part 4									
Prepared by:	Date:	8/11/05	District-Co-Route: 08-SBd-18						
KP (PM): PM 44.30/48.40 & 51.61/68.00			EA: 0G690K						
RWQCB: Santa Ana/Colorado River Basin									

Wind Erosion Controls

Wind Erosion Control (WE-1)

- Is the project located in an area where standard dust control practices in accordance with Standard Specifications, Section 10: Dust Control, are anticipated to be inadequate during construction to prevent the transport of dust offsite by wind? o Yes o No (Note: Dust control by water truck application is paid for through the various items of work. Dust palliative, if it is included, is paid for as a separate item.)
 - (a) Select SS-3 (Hydraulic Mulch), SS-4 (Hydroseeding), SS-5 (Soil Binders), SS-7 (Geotextiles, Plastic Covers, & Erosion Control Blankets/Mats), SS-8 (Wood Mulching) or a combination to cover the DSA subject to wind erosion year-round, especially when significant wind and dry conditions are anticipated or Complete during project construction. (Coordinate with District Construction for selection and preference of wind erosion control BMPs.)
 - (b) Designate as a separate contract bid line item. o Complete

Construction Site BMPs Checklist CS-1, Part 5

				•			
Prepared by:_	Lydia Kean	Date:_	8/11/05	Distric	t-Co-Route:_	08-SBd-18	
KP (PM): PM	44.30/48.40 & 5	1.61/68.0	0	EA:	0G690K	•	
RWQCB:	Santa Ana/Co	lorado Ri	ver Basin				

Non-Storm Water Management

Temporary Stream Crossing (NS-4) & Clear Water Diversion (NS-5)

1. Will construction activities occur within a waterbody or watercourse such as a lake, wetland, or stream? (Coordinate with District Construction for selection and preference for stream crossing and clear water diversion BMPs.)

o Yes X No

(a) Select from types offered in NS-4 (Temporary Stream Crossing) to provide access through watercourses consistent with permits and agreements. 1

o Complete

(b) Select from types offered in NS-5 (Clear Water Diversion) to divert watercourse consistent with permits and agreements.¹

o Complete

(c) Designate as a separate contract bid line item(s).

o Complete

Other Non-Storm Water Management BMPs

2. Are construction activities anticipated that will generate wastes or residues with the potential to discharge pollutants?

X Yes o No

(a) Identify potential pollutants associated with the anticipated construction activity and select the corresponding BMP such as NS-1 (Water Conservation Practices), NS-2 (Dewatering Operations), NS-3 (Paving and Grinding Operations), NS-7 (Potable Water/Irrigation), NS-8 (Vehicle and Equipment Cleaning), NS-9 (Vehicle and Equipment Fueling), NS-10 (Vehicle and Equipment Maintenance), NS-11 (Pile Driving Operations), NS-12 (Concrete Curing), NS-13 (Material and Equipment Use Over Water), NS-14 (Concrete Finishing), and NS-14 (Structure Demolition/Removal Over or Adjacent to Water).

X Complete

(b) Verify that costs for non-storm water management BMPs are identified in the contract documents. Designate BMP as a separate contract bid line item if requested by Construction.

X Complete

1. Coordinate with District Environmental for consistency with US Army Corps of Engineers 404 permit and Dept. of Fish and Game 1601 Streambed alteration Agreements.

Construction Site BMPs Checklist CS-1, Part 6

Prepared by	: Lydia Kean	_Date:_	8/11/05	Dis	trict	-Co-Route:	08-SBd-18	
KP (PM): PI	M 44.30/48.40 & 51	.61/68.0	00	EA	:	0G690K		_
RWQCB:	Santa Ana/Col	orado Ri	ver Basin					

Waste Management & Materials Pollution Control

Concrete Waste Management (WM-8)

1. Does the project include concrete pours or mortar mixing?

- o Yes X No
- (a) Select from types offered in <u>WM-8 (Concrete Waste Management)</u> to provide concrete washout facilities. In addition, consider portable concrete washouts and vendor supplied concrete waste management services. (Coordinate with District Construction for selection and preference of waste management and materials pollution control BMPs.)
- o Complete

(b) Designate as a separate contract bid line item.

o Complete

Other Waste Management and Materials Pollution Controls

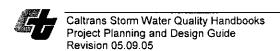
- 2. Are construction activities anticipated that will generate wastes or residues with the potential to discharge pollutants?
- X Yes o No
- (a) Identify potential pollutants associated with the anticipated construction activity and select the corresponding BMP such as <u>WM-1 (Material Delivery and Storage)</u>, <u>WM-2 (Material Use)</u>, <u>WM-4 (Spill Prevention and Control)</u>, <u>WM-5 (Solid Waste Management)</u>, WM-6 (Hazardous Waste Management), WM-7 (Contaminated Soil Management), WM-9 (Sanitary/Septic Waste Management) and WM-10 (Liquid Waste Management)
- X Complete
- (b) Verify that costs for waste management and materials pollution control BMPs are identified in the contract documents. Designate BMP as a separate contract bid line item if requested by Construction.
- X Complete

Temporary Stockpiles (Soil, Materials, and Wastes)

3. Are stockpiles of soil, etc. anticipated during construction?

- o Yes X No
- (a) Select WM-3 (Stockpile Management), SS-3 (Hydraulic Mulch), SS-4 (Hydroseeding), SS-5 (Soil Binders), SS-7 (Geotextiles, RECPs etc.), or a combination as appropriate to cover temporary stockpiles of soil, etc.
- o Complete
- (b) Select linear sediment barrier such as SC-1 (Silt Fence), SC-5 (Fiber Rolls), SC-6 (Gravel Bag Berm), SC-8 (Sand Bag Barrier), SC-9 (Straw Bale Barrier), or a combination to encircle temporary stockpiles of soil, etc. (Coordinate with District Construction for selection and preference of BMPs related to stockpiles.)
- o Complete

(c) Designate as a separate contract bid line item.



- 4. Is there a potential for dust and debris from construction material (fill material, etc.) and waste (concrete, contaminated soil, etc.) stockpiles to be transported offsite by wind?
- o Yes X No
- (a) Select SS-7, temporary cover, plastic sheeting or other BMP to cover stockpiles subject to wind erosion year-round, especially when significant wind and dry conditions are anticipated during project construction. (Coordinate with District Construction for selection and preference of wind erosion control BMPs.)
- o Complete

(b) Designate as a separate contract bid line item.